



**WAMAK**

## Wärmepumpe



# *AW 400 EVI*

# *HeavyDuty*

# *2L4*

# WAMAK AW 400 EVI HeavyDuty 2L4

## Beschreibung des Produkts

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Industrielle Hocheffizienz-Wärmepumpe in Splitbauweise mit Innen- und Außengerät. Robuste Scroll-Verdichter (2 bis 6 Einheiten) befinden sich in der Inneneinheit, und die Wärmetauscher und Ventilatoren sind wiederum außerhalb des Gebäudes untergebracht. Die geteilte Ausführung ermöglicht die Installation auch unter schwierigeren Bedingungen bei Renovierungen, bei denen die Energiequelle weiter vom Hauswirtschaftsraum entfernt ist. Breites Anwendungsspektrum von Heizung und Kühlung von Büro- oder Multifunktionsgebäuden bis hin zu industriellen Anwendungen in Kaskadenschaltung.

Verwendung für anspruchsvolle industrielle Anwendungen. Durch die Kombination der am besten geeigneten Leistungs- und Anwendungsvarianten von Wärmepumpenmodulen lässt sich das gewünschte Gesamtsystem maßgeschneidert zusammenstellen. Jedes Modul ist kältetechnisch, hydraulisch und elektrisch unabhängig und verfügt über eine eigene Steuerung. Die Verbindung der Module ist kaskadiert, wobei jeder einzelne Regler die Funktion des Kaskadenmasters übernehmen kann.

Die primäre Quelle der Wärmeenergie ist die Umgebungsluft, die von einem leisen Ventilator in Form eines Eulenflügels durch einen Wärmetauscher aus Kupfer und Aluminium geblasen wird.

Die EVI-Technologie (Enhanced Vapour Injection) ermöglicht es der Wärmepumpe, auch bei niedrigen Quelltemperaturen höhere Heizungswasser Vorlauftemperaturen zu erreichen. EVI wirkt sich auch auf die Lebensdauer des Kompressors und des gesamten Systems aus, da die Heissgastemperatur des Verdichters niedriger ist.

Das APS-System (Active Process Subcooling) erhöht gleichzeitig die Stabilität und Effizienz des Betriebs, indem es die Energie des flüssigen Kältemittels nach der Kondensation besser nutzt.

Split System (Verdichter Innen)

## Produkt Besonderheiten

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| <ul style="list-style-type: none"><li>• Scroll Verdichter</li><li>• EVI Technologie</li><li>• Asymetrischer Platten- Wärmetauscher</li><li>• Mehrstufige Leistungsregelung</li><li>• Reversible Abtauung</li><li>• Drehzahl geregelter EC Ventilator</li><li>• Phasen- und Drehfeldüberwachung</li><li>• Hochdruck Sensor - analog</li><li>• Durchflussschalter Abgabe - Ein/Aus - (mit Zubehör)</li><li>• Plattentauscherschutz HG-BYPASS</li><li>• BWW Temperaturfühler - (mit Zubehör)</li><li>• Kasladesteuerung</li><li>• Massiver Unterstellrahmen</li></ul> | <ul style="list-style-type: none"><li>• Sylomer pads unter Verdichter</li><li>• Elektronischer Expansionsventil</li><li>• Grosser Luftwärmetauscher mit APS System</li><li>• Aktive Kühlung</li><li>• Abtauunterstützung APS System</li><li>• Beheizte Kondensatablaufwanne - (mit Zubehör)</li><li>• Hochdruck Schalter</li><li>• Niederdruck Sensor - analog</li><li>• Durchflusssensor Abgabe - analog - (mit Zubehör)</li><li>• Außentemperaturfühler - (mit Zubehör)</li><li>• Puffer Temperaturfühler - (mit Zubehör)</li><li>• Modbus Anschluss</li><li>• Zweietagige Rahmenkonstruktion</li></ul> |
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## Grundlegende Leistungsdaten - WAMAK AW 400 EVI HeavyDuty 2L4

| Heizen - EN 14511                                                |                    |                        |
|------------------------------------------------------------------|--------------------|------------------------|
| Wärmeleistung [kW]                                               | A7 / W35           | 392.7 ( 49.1 / 392.7 ) |
|                                                                  | A2 / W35           | 333.6 ( 41.7 / 333.6 ) |
|                                                                  | A-7 / W34          | 279.9 ( 35.0 / 279.9 ) |
| Leistungsaufnahme [kW]                                           | A7 / W35           | 91.1 ( 10.7 / 91.1 )   |
|                                                                  | A2 / W35           | 91.0 ( 10.7 / 91.0 )   |
|                                                                  | A-7 / W34          | 88.4 ( 10.3 / 88.4 )   |
| Leistungszahl Heizen [COP]                                       | A7 / W35           | 4.31                   |
|                                                                  | A2 / W35           | 3.67                   |
|                                                                  | A-7 / W34          | 3.17                   |
| Jahreszeitbedingte Raumheizungs-Energieeffizienz - SCOP EN 14825 |                    |                        |
| Klimazone Durchschnitt / Niedrigtemp. [35 °C]                    | SCOP               | 4.24                   |
|                                                                  | $\eta$ [ % ]       | 169.5                  |
|                                                                  | Label              | A+++                   |
|                                                                  | Qhe [ kWh ]        | 655748.4               |
|                                                                  | Pdesignh [ kW ]    | 317.4                  |
|                                                                  | Tbivalent [ °C ]   | -7                     |
| Kühlung                                                          |                    |                        |
| Kühlleistung - [kW]                                              | A35 / W23-18       | 387.4                  |
|                                                                  | A25 / W23-18       | 407.2                  |
|                                                                  | A35 / W12-7        | 291.0                  |
|                                                                  | A25 / W12-7        | 291.0                  |
| Jahreszeitbedingte Raumkühlungs-Energieeffizienz - SEER EN 14825 |                    |                        |
| [ W 23 / 18 °C ]                                                 | SEER               | 4.55                   |
|                                                                  | Qce [ kWh ]        | 174600.0               |
|                                                                  | $\eta_c$ [ % ]     | 182.1                  |
| Schall EN 12102                                                  |                    |                        |
| Schallleistungspegel - L <sub>w</sub>                            | dB(A)              | 75.2                   |
| Schalldruckpegel - L <sub>p</sub>                                | 1 m dB(A)          | 67.2                   |
|                                                                  | 5 m dB(A)          | 53.2                   |
|                                                                  | 10 m dB(A)         | 47.2                   |
| Mechanische und Betriebs-Informationen                           |                    |                        |
| Verdichterbauart (3~ 400/50)                                     | SCROLL / 8 /       | Ein/Aus                |
| Kältemittel                                                      | R410A (GWP - 2088) | 8 x 9.6 kg             |
| Einsatzgrenze Heizungswasser - (min / max ) [ °C]                | 25 / 65            |                        |
| Einsatzgrenze Wärmequelle - (min / max ) [ °C]                   | -22 / 40           |                        |
| Gewicht                                                          | 2520 kg            |                        |

## Wichtigste technische Daten - WAMAK AW 400 EVI HeavyDuty 2L4

| Gehäuse Bezeichnung                     |                      |                         | HD2L4                                                                                                                                                                  |                                      |                          |                |
|-----------------------------------------|----------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|----------------|
| Grundlegende Abmessungen                | Hohe [mm]            | 2000                    | Einsatzgrenze                                                                                                                                                          | MAX [°C]                             | 65                       |                |
|                                         | Breite [mm]          | 2800                    | Heizungswasser                                                                                                                                                         | MIN [°C]                             | 25                       |                |
|                                         | Länge [mm]           | 1200                    | genauer siehe Betriebsgrenzendigramm                                                                                                                                   |                                      |                          |                |
| Gewicht [kg]                            |                      | 2520                    | Kondensator                                                                                                                                                            | Anschlussdimension                   | 8 x 2 "                  |                |
| Gehäuse Farbe                           |                      | Grau                    |                                                                                                                                                                        | Bauart                               | BPHE                     |                |
| Gehäuse IP Klasse                       |                      | IP20                    |                                                                                                                                                                        | Anzahl                               | 8                        |                |
| Kältekreis                              |                      |                         |                                                                                                                                                                        | Material                             | AISI 316                 |                |
| Verdichter                              | Bauart               | Scroll                  | Maximaler Überdruck - Kältemittel [bar]                                                                                                                                |                                      |                          | 50             |
|                                         | Leistungstufen       | 8                       | Maximaler Überdruck - Wasser [bar]                                                                                                                                     |                                      |                          | 6              |
|                                         | Ein/Aus              |                         | Prüfdruck [bar]                                                                                                                                                        |                                      |                          | 70             |
|                                         | Leistungsfaktor Cosφ | 0.64                    | Wärmeträger                                                                                                                                                            |                                      |                          | Wasser         |
|                                         | Wicklungswiderstand  | 0.76 Ohm                | Volumenstrom @ dT 5K (nom) - Wasser [m3/h]                                                                                                                             |                                      |                          | 8.48 ~ 67.81   |
| Kältemittel                             |                      | R410A                   | Interne Druckdifferenz - Wasser [kPa]                                                                                                                                  |                                      |                          | 8 x 20         |
|                                         | Menge                | 8 x 9.6 kg              | Temperaturdifferenz                                                                                                                                                    | @ 35 °C (nom)                        | 5 K                      |                |
|                                         | GWP                  | 2088                    |                                                                                                                                                                        | @ 55 °C                              | 8 K                      |                |
|                                         | Sicherheitsklasse    | A1                      |                                                                                                                                                                        | @ 65 °C                              | 10 K                     |                |
| Kältemittelöl                           | POE RL32-3MAF        |                         | Daten von Erneuerbarer Energiequelle                                                                                                                                   |                                      |                          |                |
|                                         | Ölmenge              | 8 x 3.38 L              | Einsatzgrenze                                                                                                                                                          | MIN [°C]                             | -22                      |                |
| Maximaler Hochdruck - Kältemittel [bar] |                      | 50                      | Wärmequelle                                                                                                                                                            | MAX [°C]                             | 40                       |                |
| PED Klasse                              |                      | 2                       | genauer siehe Betriebsgrenzendigramm                                                                                                                                   |                                      |                          |                |
| EVI - Dampfeinspritzung mit Ekonomiser  |                      |                         | Verdampfer                                                                                                                                                             | Anschlussdimension                   | 8 x (7/8" - 1.3/8") "    |                |
| APS System mit Flüssigkeitsunterkühlung |                      |                         |                                                                                                                                                                        | Bauart                               | Cu-coil /Al-fin          |                |
| Reversibler Betrieb (Kühlung)           |                      |                         |                                                                                                                                                                        | Anzahl                               | 8                        |                |
| Reversible Abtauung mit Heissgas        |                      |                         |                                                                                                                                                                        | Material                             | Cu/Al                    |                |
| Plattentauscherschutz HG-BYPASS         |                      |                         | Maximaler Überdruck - Kältemittel [bar]                                                                                                                                |                                      |                          | 29             |
| Daten von Elektroanschluss              |                      |                         | Wärmeträger                                                                                                                                                            |                                      |                          | Luft           |
| Einspeisung [#~ V/Hz]                   |                      | 3~ 400/50               | Volumenstrom - Luft [m3/h]                                                                                                                                             |                                      |                          | 15073 ~ 120580 |
| Strom                                   | Nominal [A]          | 188.24                  | Interne Druckdifferenz - Luft [kPa]                                                                                                                                    |                                      |                          | 8 x 0.061      |
|                                         | Maximal [A]          | 299.20                  | Temperaturdifferenz - Luft                                                                                                                                             |                                      |                          | 7 K            |
|                                         | Start [A]            | 57.2                    | Mögliche Ausseneinheiten                                                                                                                                               | 4 x VOV900X2-FRAME                   |                          |                |
| Sanftanlasser                           |                      | 8 x VOII-1200-2LOW      |                                                                                                                                                                        |                                      |                          |                |
| Hauptsicherung                          |                      | 8 x VOII-1200-2HIGH     |                                                                                                                                                                        |                                      |                          |                |
| Steuerungssystem                        |                      | 8 x VOII-1200-2LOW-DUCT |                                                                                                                                                                        |                                      |                          |                |
| Hauptregler                             |                      | SIEMENS                 |                                                                                                                                                                        | RVS 21 AVS 55.199                    | 8 x VOII-1200-2HIGH-DUCT |                |
| Erweiterungsmo dul                      |                      | AVS75.3xx               | AVS75.3xx                                                                                                                                                              | AVS75.372                            |                          |                |
| Bus Clip-In                             |                      | LPB OCI347              | Modbus OCI353                                                                                                                                                          |                                      |                          |                |
| Online-Verbindung                       |                      | Web server OZW672       | ToSyMo                                                                                                                                                                 |                                      |                          |                |
| EEV Regelung                            |                      | SEC61                   |                                                                                                                                                                        | Split System (Verdichter im Gebäude) |                          |                |
| *** mit Zubehör                         |                      |                         | Flussigkeitsleitung (bis 8 Meter IE/AE)                                                                                                                                |                                      |                          | 8 x 7/8"       |
|                                         |                      |                         | Saugleitung (bis 8 Meter IE/AE)                                                                                                                                        |                                      |                          | 8 x 1.3/8"     |
|                                         |                      |                         | Zusatzfüllung über 8 Meter Leitung                                                                                                                                     |                                      |                          | 8 x 0.35 kg/m  |
|                                         |                      |                         | bei Luft - Wasser SPLIT Anlagen beinhaltet die Inneneinheit von Werk nur leichtes Überdruck vom Kältemittel was nach dem Betriebstest in der Wärmepumpe geblieben ist. |                                      |                          |                |

# WAMAK AW 400 EVI HeavyDuty 2L4

## ErP (EU) No 811/2013: Technische Parameter für Wärmepumpen-Raumheizgeräte

| Modell                               | AW 400 EVI HeavyDuty 2L4 |
|--------------------------------------|--------------------------|
| Luft-Wasser-Wärmepumpe               | ja                       |
| Sole/Wasser-Wärmepumpe               | nein                     |
| Wasser/Wasser-Wärmepumpe             | nein                     |
| Niedertemperatur-Wärmepumpe          | nein                     |
| Ausgestattet mit einer Zusatzheizung | nein                     |
| Wärmepumpen-Kombi-Heizgerät          | nein                     |
| Temperaturanwendung                  | niedrig (35 °C - 30 °C)  |
| Klimaverhältnisse                    | durchschnittlich         |

| Angabe                                                                                                      | Symbol | Wert       | Ein. | Angabe                                                                                                                                 | Symbol | Wert           | Ein. |
|-------------------------------------------------------------------------------------------------------------|--------|------------|------|----------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|------|
| Nennwärmeleistung bei Tdesignh                                                                              | Prated | 317.4      | kW   | Jahreszeitbedingte Raumheizungs-Energieeffizienz                                                                                       | ηs     | 169.5          | %    |
| Ausgewiesene Heizleistung für Teillast bei einer Innentemperatur von 20 °C und einer Außentemperatur von Tj |        |            |      | Deklarierte Leistungszahl oder Primärenergiekennzahl für Teillast bei einer Innentemperatur von 20 °C und einer Außentemperatur von Tj |        |                |      |
| Tj = -7 °C                                                                                                  | Pdh    | 279.9      | kW   | Tj = -7 °C                                                                                                                             | COPd   | 3.17           | -    |
| Tj = +2 °C                                                                                                  | Pdh    | 330.0      | kW   | Tj = +2 °C                                                                                                                             | COPd   | 4.1            | -    |
| Tj = +7 °C                                                                                                  | Pdh    | 388.7      | kW   | Tj = +7 °C                                                                                                                             | COPd   | 5.1            | -    |
| Tj = +12 °C                                                                                                 | Pdh    | 459.6      | kW   | Tj = +12 °C                                                                                                                            | COPd   | 6.4            | -    |
| Tj = bivalente Temperatur                                                                                   | Pdh    | 275.2      | kW   | Tj = bivalente Temperatur                                                                                                              | COPd   | 3.1            | -    |
| Tj = Betriebsgrenztemperatur                                                                                | Pdh    | 200.7      | kW   | Tj = Betriebsgrenztemperatur                                                                                                           | COPd   | 2.3            | -    |
| Bivalente Temperatur                                                                                        | Tbiv   | -7         | °C   | Tj = Betriebsgrenztemperatur                                                                                                           | TOL    | -22            | °C   |
| Stromverbrauch in anderen Modi als dem aktiven Modus                                                        |        |            |      | Betriebsgrenztemperatur des Heizwassers                                                                                                | WTOL   | 65             | °C   |
| Aus-Zustand                                                                                                 | Poff   | 0.040      | kW   | Zusatzheizung                                                                                                                          |        |                |      |
| Thermostat-Aus-Modus                                                                                        | Pto    | 0.010      | kW   | Nennwärmeleistung                                                                                                                      | Psup   | 140.7          | kW   |
| Standby-Betrieb                                                                                             | Psb    | 0.010      | kW   | Art der Energiezufuhr                                                                                                                  |        | elektrisch     |      |
| Betriebsart Kurbelwannenheizung                                                                             | Pck    | 0.050      | kW   |                                                                                                                                        |        |                |      |
| Sonstige Angaben                                                                                            |        |            |      | Für Luft/Wasser-Wärmepumpen:                                                                                                           | -      | 15073 ~ 120580 | m3/h |
| Leistungsregelung                                                                                           |        | mehrstufig |      | Nennluftvolumenstrom, Außenbereich                                                                                                     |        |                |      |
| Schalleistungspegel                                                                                         |        |            |      | Für Wasser- oder Sole/Wasser-Wärmepumpen: Nenndurchfluss der Sole oder des Wassers, Wärmetauscher im Freien                            | -      | ---            | m3/h |
| in Innenräumen                                                                                              | Lwa    | 75         | dB   |                                                                                                                                        |        |                |      |
| im Freien                                                                                                   | Lwa    | 80         | dB   |                                                                                                                                        |        |                |      |
| Jährlicher Energieverbrauch                                                                                 | QHE    | 655748.4   | kWh  |                                                                                                                                        |        |                |      |

**Angaben zum Kontakt:** WAMAK, s.r.o., Orovnic 252, 96652, Orovnic, Slovakia, info@wamak.sk

# WAMAK AW 400 EVI HeavyDuty 2L4

## ErP (EU) No 811/2013: Technische Parameter für Wärmepumpen-Raumheizgeräte

| Modell                               | AW 400 EVI HeavyDuty 2L4 |
|--------------------------------------|--------------------------|
| Luft-Wasser-Wärmepumpe               | ja                       |
| Sole/Wasser-Wärmepumpe               | nein                     |
| Wasser/Wasser-Wärmepumpe             | nein                     |
| Niedertemperatur-Wärmepumpe          | nein                     |
| Ausgestattet mit einer Zusatzheizung | nein                     |
| Wärmepumpen-Kombi-Heizgerät          | nein                     |
| Temperaturanwendung                  | mittel (55 °C - 47 °C)   |
| Klimaverhältnisse                    | durchschnittlich         |

| Angabe                                                                                                      | Symbol | Wert       | Ein. | Angabe                                                                                                                                 | Symbol | Wert           | Ein. |
|-------------------------------------------------------------------------------------------------------------|--------|------------|------|----------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|------|
| Nennwärmeleistung bei Tdesignh                                                                              | Prated | 333.0      | kW   | Jahreszeitbedingte Raumheizungs-Energieeffizienz                                                                                       | ηs     | 132.6          | %    |
| Ausgewiesene Heizleistung für Teillast bei einer Innentemperatur von 20 °C und einer Außentemperatur von Tj |        |            |      | Deklarierte Leistungszahl oder Primärenergiekennzahl für Teillast bei einer Innentemperatur von 20 °C und einer Außentemperatur von Tj |        |                |      |
| Tj = -7 °C                                                                                                  | Pdh    | 292.6      | kW   | Tj = -7 °C                                                                                                                             | COPd   | 2.24           | -    |
| Tj = +2 °C                                                                                                  | Pdh    | 338.0      | kW   | Tj = +2 °C                                                                                                                             | COPd   | 3.2            | -    |
| Tj = +7 °C                                                                                                  | Pdh    | 393.1      | kW   | Tj = +7 °C                                                                                                                             | COPd   | 4.2            | -    |
| Tj = +12 °C                                                                                                 | Pdh    | 460.5      | kW   | Tj = +12 °C                                                                                                                            | COPd   | 5.6            | -    |
| Tj = bivalente Temperatur                                                                                   | Pdh    | 289.1      | kW   | Tj = bivalente Temperatur                                                                                                              | COPd   | 2.1            | -    |
| Tj = Betriebsgrenztemperatur                                                                                | Pdh    | 211.6      | kW   | Tj = Betriebsgrenztemperatur                                                                                                           | COPd   | 1.6            | -    |
| Bivalente Temperatur                                                                                        | Tbiv   | -7         | °C   | Tj = Betriebsgrenztemperatur                                                                                                           | TOL    | -22            | °C   |
| Stromverbrauch in anderen Modi als dem aktiven Modus                                                        |        |            |      | Betriebsgrenztemperatur des Heizwassers                                                                                                | WTOL   | 65             | °C   |
| Aus-Zustand                                                                                                 | Poff   | 0.040      | kW   | Zusatzheizung                                                                                                                          |        |                |      |
| Thermostat-Aus-Modus                                                                                        | Pto    | 0.010      | kW   | Nennwärmeleistung                                                                                                                      | Psup   | 140.7          | kW   |
| Standby-Betrieb                                                                                             | Psb    | 0.010      | kW   | Art der Energiezufuhr                                                                                                                  |        | elektrisch     |      |
| Betriebsart Kurbelwannenheizung                                                                             | Pck    | 0.050      | kW   |                                                                                                                                        |        |                |      |
| Sonstige Angaben                                                                                            |        |            |      | Für Luft/Wasser-Wärmepumpen:                                                                                                           | -      | 15073 ~ 120580 | m3/h |
| Leistungsregelung                                                                                           |        | mehrstufig |      | Nennluftvolumenstrom, Außenbereich                                                                                                     |        |                |      |
| Schalleistungspegel                                                                                         |        |            |      | Für Wasser- oder Sole/Wasser-Wärmepumpen: Nenndurchfluss der Sole oder des Wassers, Wärmetauscher im Freien                            | -      | ---            | m3/h |
| in Innenräumen                                                                                              | Lwa    | 75         | dB   |                                                                                                                                        |        |                |      |
| im Freien                                                                                                   | Lwa    | 80         | dB   |                                                                                                                                        |        |                |      |
| Jährlicher Energieverbrauch                                                                                 | QHE    | 687978.0   | kWh  |                                                                                                                                        |        |                |      |

**Angaben zum Kontakt:** WAMAK, s.r.o., Orovnic 252, 96652, Orovnic, Slovakia, info@wamak.sk



# ENERG

енергия - ενέργεια



## WAMAK

AW 400 EVI

HeavyDuty 2L4



55 °C

35 °C

A+++

A++

A+

A

B

C

D

A++

A+++



75 dB



80 dB

■ 350  
■ 333  
■ 327  
kW

■ 324  
■ 318  
■ 302  
kW



2019

811/2013

AW 400 EVI HeavyDuty  
2L4

ErP Data

55 °C

35 °C

Energy class

A++

A+++

$\eta$

[ % ]

132.6

169.5

$P_{rated}$

[ kW ]

333

318

$Q_{HE}$

[ kWh/y ]

687978

655749

SCOP

[ - ]

3.31

4.24

$T_{bivalent}$

[ °C ]

-7

-7

CONTROLLER



+ QAA55/75

class VII

3.5% ↓

- QAA55/75

class III

1.5% ↓

Heizleistung Daten

Version: v2024.004-AW

Klimazone Durchschnitt / Niedrigtemp. [35°C]

ZHI46K1P-TWD\_R410A\_8\_AW

| Betriebsbedingungen |             | Qh    | P    | COP  |
|---------------------|-------------|-------|------|------|
| 1                   | A7 / W30-35 | 392.7 | 91.1 | 4.31 |
| 2                   | A2 / W35    | 333.6 | 91.0 | 3.67 |
| 3                   | A-22 / W35  | 200.7 | 86.7 | 2.31 |
| A                   | A-7 / W34   | 279.9 | 88.4 | 3.17 |
| B                   | A2 / W30    | 330.0 | 81.3 | 4.06 |
| C                   | A7 / W27    | 388.7 | 76.1 | 5.11 |
| D                   | A12 / W24   | 459.6 | 71.7 | 6.41 |
| E                   | A-10 / W35  | 275.2 | 90.2 | 3.05 |
| F                   | A-7 / W34   | 279.9 | 88.4 | 3.17 |

| SCOP DATA EN 14825:2018                      |           |
|----------------------------------------------|-----------|
| Klimazone Durchschnitt / Niedrigtemp. [35°C] |           |
| SCOPon                                       | 4.25      |
| SCOPnet                                      | 4.29      |
| SCOP                                         | 4.24      |
| η [ % ]                                      | 169.48    |
| Label                                        | A+++      |
| Qh [ kWh ]                                   | 655748.40 |
| Pdesignh [ kW ]                              | 317.4     |
| Tbivalent [ °C ]                             | -7.00     |

Klimazone Durchschnitt / Mitteltemp. [55°C]

| Betriebsbedingungen |             | Qh    | P     | COP  |
|---------------------|-------------|-------|-------|------|
| 1                   | A7 / W47-55 | 400.7 | 142.8 | 2.81 |
| 2                   | A2 / W55    | 345.7 | 141.8 | 2.44 |
| 3                   | A-22 / W55  | 211.6 | 121.3 | 1.62 |
| A                   | A-7 / W52   | 292.6 | 130.6 | 2.24 |
| B                   | A2 / W42    | 338.0 | 106.1 | 3.18 |
| C                   | A7 / W36    | 393.1 | 93.1  | 4.22 |
| D                   | A12 / W30   | 460.5 | 81.7  | 5.64 |
| E                   | A-10 / W55  | 289.1 | 139.1 | 2.08 |
| F                   | A-7 / W55   | 294.5 | 139.5 | 2.11 |

| SCOP DATA EN 14825:2018                     |           |
|---------------------------------------------|-----------|
| Klimazone Durchschnitt / Mitteltemp. [55°C] |           |
| SCOPon                                      | 3.32      |
| SCOPnet                                     | 3.34      |
| SCOP                                        | 3.31      |
| η [ % ]                                     | 132.57    |
| Label                                       | A++       |
| Qh [ kWh ]                                  | 687978.00 |
| Pdesignh [ kW ]                             | 333.0     |
| Tbivalent [ °C ]                            | -7.00     |

Kühlungleistung Daten

Niedrigtemperatur Kühlung W 12 / 7°C

| Betriebsbedingungen |             | Qc    | P     | EER  |
|---------------------|-------------|-------|-------|------|
| A                   | A35 / W12-7 | 291.0 | 108.7 | 2.68 |
| B                   | A30 / W12-7 | 299.1 | 97.3  | 3.07 |
| C                   | A25 / W12-7 | 305.9 | 87.1  | 3.51 |
| D                   | A20 / W12-7 | 311.5 | 77.8  | 4.00 |

| SEER DATA EN 14825:2018 [ W 12 / 7°C ] |           |
|----------------------------------------|-----------|
| SEERon                                 | 3.43      |
| SEER                                   | 3.42      |
| Qc [ kWh ]                             | 174600.00 |
| η [ % ]                                | 136.86    |

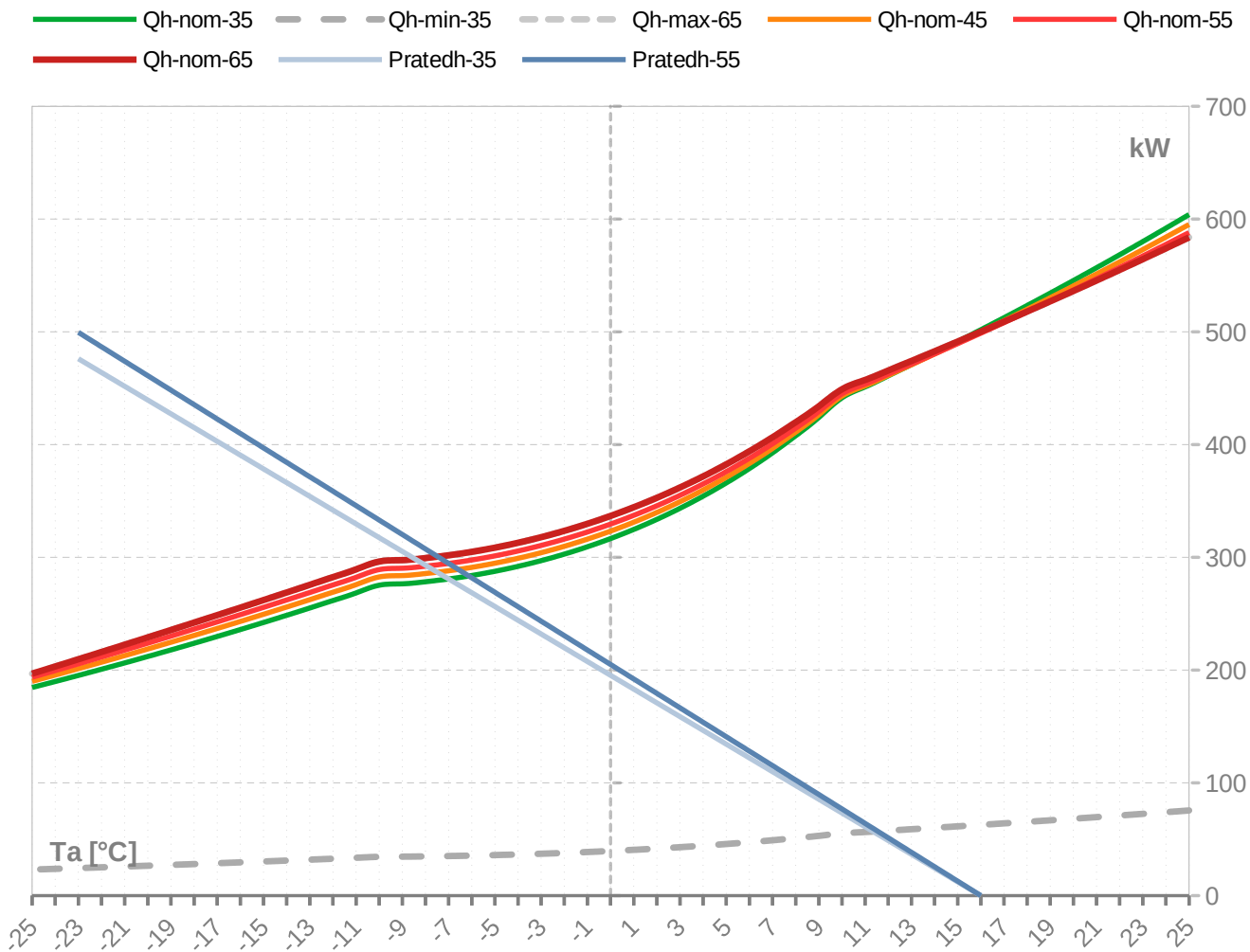
Flächenkühlung W 23 / 18°C

| Betriebsbedingungen |              | Qc    | P     | EER  |
|---------------------|--------------|-------|-------|------|
| A                   | A35 / W23-18 | 387.4 | 108.7 | 3.56 |
| B                   | A30 / W23-18 | 398.0 | 90.1  | 4.09 |
| C                   | A25 / W23-18 | 407.2 | 80.9  | 4.67 |
| D                   | A20 / W23-18 | 415.3 | 72.8  | 5.34 |

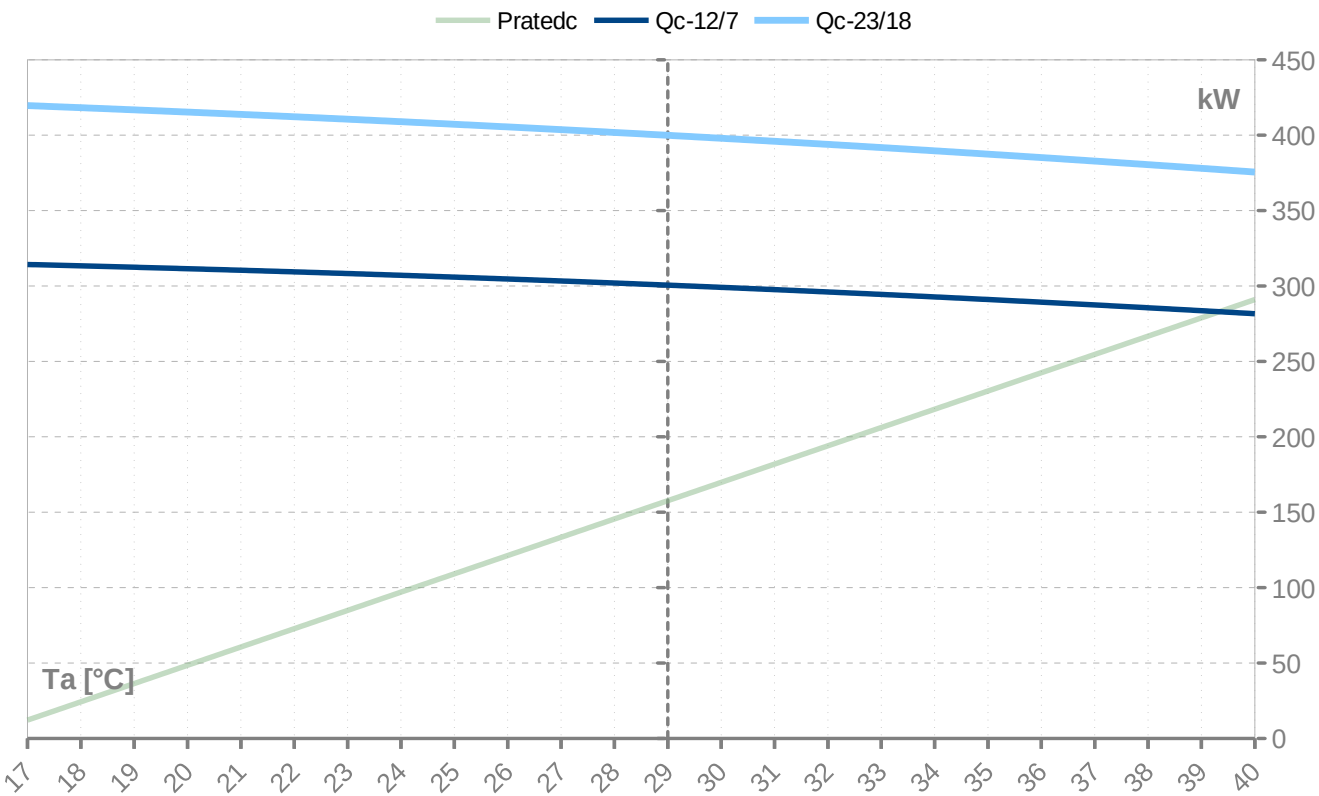
| SEER DATA EN 14825:2018 [ W 23 / 18°C ] |           |
|-----------------------------------------|-----------|
| SEERon                                  | 4.57      |
| SEER                                    | 4.55      |
| Qc [ kWh ]                              | 174600.00 |
| η [ % ]                                 | 182.09    |



Leistungslinien - Heizen



Leistungslinien - Kühlen



| Th [°C] |                | 35 °C          |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 24      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 23      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 22      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 21      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 20      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 19      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 18      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 17      | <b>512.5</b>   | 64.1           |                | <b>91.1</b>     | 10.7            |                 | <b>5.62</b>    | 186.2        | 23.3         |              |
| 16      | <b>501.8</b>   | 62.7           | 501.8          | <b>91.1</b>     | 10.7            | 91.1            | <b>5.51</b>    | 186.3        | 23.3         | 186.3        |
| 15      | <b>491.4</b>   | 61.4           | 491.4          | <b>91.1</b>     | 10.7            | 91.1            | <b>5.40</b>    | 186.5        | 23.3         | 186.5        |
| 14      | <b>481.1</b>   | 60.1           | 481.1          | <b>91.1</b>     | 10.7            | 91.1            | <b>5.28</b>    | 186.6        | 23.3         | 186.6        |
| 13      | <b>470.9</b>   | 58.9           | 470.9          | <b>91.0</b>     | 10.7            | 91.0            | <b>5.17</b>    | 186.8        | 23.4         | 186.8        |
| 12      | <b>460.9</b>   | 57.6           | 460.9          | <b>91.0</b>     | 10.7            | 91.0            | <b>5.06</b>    | 187.0        | 23.4         | 187.0        |
| 11      | <b>451.1</b>   | 56.4           | 451.1          | <b>91.0</b>     | 10.7            | 91.0            | <b>4.96</b>    | 187.2        | 23.4         | 187.2        |
| 10      | <b>441.5</b>   | 55.2           | 441.5          | <b>91.0</b>     | 10.7            | 91.0            | <b>4.85</b>    | 187.4        | 23.4         | 187.4        |
| 9       | <b>424.0</b>   | 53.0           | 424.0          | <b>91.1</b>     | 10.7            | 91.1            | <b>4.66</b>    | 187.8        | 23.5         | 187.8        |
| 8       | <b>407.8</b>   | 51.0           | 407.8          | <b>91.1</b>     | 10.7            | 91.1            | <b>4.48</b>    | 188.2        | 23.5         | 188.2        |
| 7       | <b>392.7</b>   | 49.1           | 392.7          | <b>91.1</b>     | 10.7            | 91.1            | <b>4.31</b>    | 188.6        | 23.6         | 188.6        |
| 6       | <b>378.8</b>   | 47.3           | 378.8          | <b>91.1</b>     | 10.7            | 91.1            | <b>4.16</b>    | 188.9        | 23.6         | 188.9        |
| 5       | <b>366.0</b>   | 45.7           | 366.0          | <b>91.1</b>     | 10.7            | 91.1            | <b>4.02</b>    | 189.2        | 23.7         | 189.2        |
| 4       | <b>354.2</b>   | 44.3           | 354.2          | <b>91.0</b>     | 10.7            | 91.0            | <b>3.89</b>    | 189.4        | 23.7         | 189.4        |
| 3       | <b>343.4</b>   | 42.9           | 343.4          | <b>91.0</b>     | 10.7            | 91.0            | <b>3.77</b>    | 189.6        | 23.7         | 189.6        |
| 2       | <b>333.6</b>   | 41.7           | 333.6          | <b>91.0</b>     | 10.7            | 91.0            | <b>3.67</b>    | 189.8        | 23.7         | 189.8        |
| 1       | <b>324.7</b>   | 40.6           | 324.7          | <b>90.9</b>     | 10.6            | 90.9            | <b>3.57</b>    | 189.9        | 23.7         | 189.9        |
| 0       | <b>316.6</b>   | 39.6           | 316.6          | <b>90.8</b>     | 10.6            | 90.8            | <b>3.49</b>    | 190.0        | 23.7         | 190.0        |
| -1      | <b>309.3</b>   | 38.7           | 309.3          | <b>90.8</b>     | 10.6            | 90.8            | <b>3.41</b>    | 190.0        | 23.7         | 190.0        |
| -2      | <b>302.8</b>   | 37.9           | 302.8          | <b>90.7</b>     | 10.6            | 90.7            | <b>3.34</b>    | 190.0        | 23.7         | 190.0        |
| -3      | <b>297.0</b>   | 37.1           | 297.0          | <b>90.6</b>     | 10.6            | 90.6            | <b>3.28</b>    | 190.0        | 23.7         | 190.0        |
| -4      | <b>292.0</b>   | 36.5           | 292.0          | <b>90.5</b>     | 10.6            | 90.5            | <b>3.22</b>    | 189.9        | 23.7         | 189.9        |
| -5      | <b>287.6</b>   | 35.9           | 287.6          | <b>90.5</b>     | 10.6            | 90.5            | <b>3.18</b>    | 189.9        | 23.7         | 189.9        |
| -6      | <b>283.8</b>   | 35.5           | 283.8          | <b>90.4</b>     | 10.6            | 90.4            | <b>3.14</b>    | 189.8        | 23.7         | 189.8        |
| -7      | <b>280.8</b>   | 35.1           | 280.8          | <b>90.3</b>     | 10.6            | 90.3            | <b>3.11</b>    | 189.8        | 23.7         | 189.8        |
| -8      | <b>278.3</b>   | 34.8           | 278.3          | <b>90.3</b>     | 10.6            | 90.3            | <b>3.08</b>    | 189.7        | 23.7         | 189.7        |
| -9      | <b>276.5</b>   | 34.6           | 276.5          | <b>90.2</b>     | 10.6            | 90.2            | <b>3.06</b>    | 189.7        | 23.7         | 189.7        |
| -10     | <b>275.2</b>   | 34.4           | 275.2          | <b>90.2</b>     | 10.6            | 90.2            | <b>3.05</b>    | 189.7        | 23.7         | 189.7        |
| -11     | <b>268.4</b>   | 33.5           | 268.4          | <b>90.1</b>     | 10.5            | 90.1            | <b>2.98</b>    | 189.5        | 23.7         | 189.5        |
| -12     | <b>261.6</b>   | 32.7           | 261.6          | <b>89.9</b>     | 10.5            | 89.9            | <b>2.91</b>    | 189.3        | 23.7         | 189.3        |
| -13     | <b>255.0</b>   | 31.9           | 255.0          | <b>89.7</b>     | 10.5            | 89.7            | <b>2.84</b>    | 189.0        | 23.6         | 189.0        |
| -14     | <b>248.5</b>   | 31.1           | 248.5          | <b>89.4</b>     | 10.5            | 89.4            | <b>2.78</b>    | 188.6        | 23.6         | 188.6        |
| -15     | <b>242.2</b>   | 30.3           | 242.2          | <b>89.2</b>     | 10.4            | 89.2            | <b>2.72</b>    | 188.3        | 23.5         | 188.3        |
| -16     | <b>235.9</b>   | 29.5           | 235.9          | <b>88.9</b>     | 10.4            | 88.9            | <b>2.65</b>    | 187.8        | 23.5         | 187.8        |
| -17     | <b>229.8</b>   | 28.7           | 229.8          | <b>88.6</b>     | 10.4            | 88.6            | <b>2.59</b>    | 187.3        | 23.4         | 187.3        |
| -18     | <b>223.7</b>   | 28.0           | 223.7          | <b>88.3</b>     | 10.3            | 88.3            | <b>2.53</b>    | 186.8        | 23.3         | 186.8        |
| -19     | <b>217.8</b>   | 27.2           | 217.8          | <b>87.9</b>     | 10.3            | 87.9            | <b>2.48</b>    | 186.2        | 23.3         | 186.2        |
| -20     | <b>212.0</b>   | 26.5           | 212.0          | <b>87.6</b>     | 10.3            | 87.6            | <b>2.42</b>    | 185.5        | 23.2         | 185.5        |
| -21     | <b>206.3</b>   | 25.8           | 206.3          | <b>87.1</b>     | 10.2            | 87.1            | <b>2.37</b>    | 184.7        | 23.1         | 184.7        |
| -22     | <b>200.7</b>   | 25.1           | 200.7          | <b>86.7</b>     | 10.2            | 86.7            | <b>2.31</b>    | 183.9        | 23.0         | 183.9        |
| -23     | <b>195.2</b>   | 24.4           | 195.2          | <b>86.2</b>     | 10.1            | 86.2            | <b>2.26</b>    | 183.0        | 22.9         | 183.0        |
| -24     | <b>189.8</b>   | 23.7           | 189.8          | <b>85.7</b>     | 10.0            | 85.7            | <b>2.21</b>    | 182.0        | 22.8         | 182.0        |
| -25     | <b>184.5</b>   | 23.1           | 184.5          | <b>85.2</b>     | 10.0            | 85.2            | <b>2.17</b>    | 181.0        | 22.6         | 181.0        |

| Th [°C] |                | 45 °C          |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | <b>595.2</b>   | 74.4           | 595.2          | <b>112.9</b>    | 13.2            | 112.9           | <b>5.27</b>    | 212.2        | 26.5         | 212.2        |
| 24      | <b>584.0</b>   | 73.0           | 584.0          | <b>112.9</b>    | 13.2            | 112.9           | <b>5.17</b>    | 212.2        | 26.5         | 212.2        |
| 23      | <b>572.9</b>   | 71.6           | 572.9          | <b>112.9</b>    | 13.2            | 112.9           | <b>5.07</b>    | 212.2        | 26.5         | 212.2        |
| 22      | <b>562.0</b>   | 70.2           | 562.0          | <b>113.0</b>    | 13.2            | 113.0           | <b>4.98</b>    | 212.2        | 26.5         | 212.2        |
| 21      | <b>551.2</b>   | 68.9           | 551.2          | <b>113.0</b>    | 13.2            | 113.0           | <b>4.88</b>    | 212.2        | 26.5         | 212.2        |
| 20      | <b>540.6</b>   | 67.6           | 540.6          | <b>113.0</b>    | 13.2            | 113.0           | <b>4.78</b>    | 212.2        | 26.5         | 212.2        |
| 19      | <b>530.2</b>   | 66.3           | 530.2          | <b>113.1</b>    | 13.2            | 113.1           | <b>4.69</b>    | 212.3        | 26.5         | 212.3        |
| 18      | <b>519.9</b>   | 65.0           | 519.9          | <b>113.1</b>    | 13.2            | 113.1           | <b>4.60</b>    | 212.3        | 26.5         | 212.3        |
| 17      | <b>509.8</b>   | 63.7           | 509.8          | <b>113.2</b>    | 13.3            | 113.2           | <b>4.50</b>    | 212.4        | 26.6         | 212.4        |
| 16      | <b>499.8</b>   | 62.5           | 499.8          | <b>113.3</b>    | 13.3            | 113.3           | <b>4.41</b>    | 212.5        | 26.6         | 212.5        |
| 15      | <b>490.0</b>   | 61.2           | 490.0          | <b>113.3</b>    | 13.3            | 113.3           | <b>4.32</b>    | 212.6        | 26.6         | 212.6        |
| 14      | <b>480.3</b>   | 60.0           | 480.3          | <b>113.4</b>    | 13.3            | 113.4           | <b>4.24</b>    | 212.7        | 26.6         | 212.7        |
| 13      | <b>470.7</b>   | 58.8           | 470.7          | <b>113.4</b>    | 13.3            | 113.4           | <b>4.15</b>    | 212.8        | 26.6         | 212.8        |
| 12      | <b>461.3</b>   | 57.7           | 461.3          | <b>113.5</b>    | 13.3            | 113.5           | <b>4.07</b>    | 212.9        | 26.6         | 212.9        |
| 11      | <b>452.1</b>   | 56.5           | 452.1          | <b>113.5</b>    | 13.3            | 113.5           | <b>3.98</b>    | 212.9        | 26.6         | 212.9        |
| 10      | <b>443.0</b>   | 55.4           | 443.0          | <b>113.6</b>    | 13.3            | 113.6           | <b>3.90</b>    | 213.0        | 26.6         | 213.0        |
| 9       | <b>426.4</b>   | 53.3           | 426.4          | <b>113.6</b>    | 13.3            | 113.6           | <b>3.75</b>    | 213.1        | 26.6         | 213.1        |
| 8       | <b>411.0</b>   | 51.4           | 411.0          | <b>113.7</b>    | 13.3            | 113.7           | <b>3.62</b>    | 213.2        | 26.7         | 213.2        |
| 7       | <b>396.6</b>   | 49.6           | 396.6          | <b>113.7</b>    | 13.3            | 113.7           | <b>3.49</b>    | 213.2        | 26.7         | 213.2        |
| 6       | <b>383.3</b>   | 47.9           | 383.3          | <b>113.7</b>    | 13.3            | 113.7           | <b>3.37</b>    | 213.2        | 26.7         | 213.2        |
| 5       | <b>371.0</b>   | 46.4           | 371.0          | <b>113.7</b>    | 13.3            | 113.7           | <b>3.26</b>    | 213.1        | 26.6         | 213.1        |
| 4       | <b>359.7</b>   | 45.0           | 359.7          | <b>113.6</b>    | 13.3            | 113.6           | <b>3.17</b>    | 213.0        | 26.6         | 213.0        |
| 3       | <b>349.3</b>   | 43.7           | 349.3          | <b>113.5</b>    | 13.3            | 113.5           | <b>3.08</b>    | 212.8        | 26.6         | 212.8        |
| 2       | <b>339.8</b>   | 42.5           | 339.8          | <b>113.4</b>    | 13.3            | 113.4           | <b>3.00</b>    | 212.6        | 26.6         | 212.6        |
| 1       | <b>331.1</b>   | 41.4           | 331.1          | <b>113.3</b>    | 13.3            | 113.3           | <b>2.92</b>    | 212.3        | 26.5         | 212.3        |
| 0       | <b>323.2</b>   | 40.4           | 323.2          | <b>113.1</b>    | 13.2            | 113.1           | <b>2.86</b>    | 212.0        | 26.5         | 212.0        |
| -1      | <b>316.1</b>   | 39.5           | 316.1          | <b>113.0</b>    | 13.2            | 113.0           | <b>2.80</b>    | 211.7        | 26.5         | 211.7        |
| -2      | <b>309.7</b>   | 38.7           | 309.7          | <b>112.8</b>    | 13.2            | 112.8           | <b>2.74</b>    | 211.4        | 26.4         | 211.4        |
| -3      | <b>304.1</b>   | 38.0           | 304.1          | <b>112.7</b>    | 13.2            | 112.7           | <b>2.70</b>    | 211.1        | 26.4         | 211.1        |
| -4      | <b>299.1</b>   | 37.4           | 299.1          | <b>112.5</b>    | 13.2            | 112.5           | <b>2.66</b>    | 210.8        | 26.4         | 210.8        |
| -5      | <b>294.8</b>   | 36.8           | 294.8          | <b>112.4</b>    | 13.2            | 112.4           | <b>2.62</b>    | 210.5        | 26.3         | 210.5        |
| -6      | <b>291.1</b>   | 36.4           | 291.1          | <b>112.3</b>    | 13.1            | 112.3           | <b>2.59</b>    | 210.3        | 26.3         | 210.3        |
| -7      | <b>288.0</b>   | 36.0           | 288.0          | <b>112.2</b>    | 13.1            | 112.2           | <b>2.57</b>    | 210.0        | 26.3         | 210.0        |
| -8      | <b>285.6</b>   | 35.7           | 285.6          | <b>112.1</b>    | 13.1            | 112.1           | <b>2.55</b>    | 209.8        | 26.2         | 209.8        |
| -9      | <b>283.8</b>   | 35.5           | 283.8          | <b>112.0</b>    | 13.1            | 112.0           | <b>2.53</b>    | 209.7        | 26.2         | 209.7        |
| -10     | <b>282.6</b>   | 35.3           | 282.6          | <b>112.0</b>    | 13.1            | 112.0           | <b>2.52</b>    | 209.6        | 26.2         | 209.6        |
| -11     | <b>275.7</b>   | 34.5           | 275.7          | <b>111.7</b>    | 13.1            | 111.7           | <b>2.47</b>    | 209.0        | 26.1         | 209.0        |
| -12     | <b>269.0</b>   | 33.6           | 269.0          | <b>111.4</b>    | 13.0            | 111.4           | <b>2.42</b>    | 208.3        | 26.0         | 208.3        |
| -13     | <b>262.4</b>   | 32.8           | 262.4          | <b>111.0</b>    | 13.0            | 111.0           | <b>2.36</b>    | 207.6        | 25.9         | 207.6        |
| -14     | <b>255.9</b>   | 32.0           | 255.9          | <b>110.6</b>    | 13.0            | 110.6           | <b>2.31</b>    | 206.8        | 25.8         | 206.8        |
| -15     | <b>249.5</b>   | 31.2           | 249.5          | <b>110.2</b>    | 12.9            | 110.2           | <b>2.26</b>    | 205.9        | 25.7         | 205.9        |
| -16     | <b>243.1</b>   | 30.4           | 243.1          | <b>109.8</b>    | 12.9            | 109.8           | <b>2.21</b>    | 205.0        | 25.6         | 205.0        |
| -17     | <b>236.9</b>   | 29.6           | 236.9          | <b>109.3</b>    | 12.8            | 109.3           | <b>2.17</b>    | 204.0        | 25.5         | 204.0        |
| -18     | <b>230.7</b>   | 28.8           | 230.7          | <b>108.8</b>    | 12.7            | 108.8           | <b>2.12</b>    | 202.9        | 25.4         | 202.9        |
| -19     | <b>224.7</b>   | 28.1           | 224.7          | <b>108.3</b>    | 12.7            | 108.3           | <b>2.07</b>    | 201.7        | 25.2         | 201.7        |
| -20     | <b>218.7</b>   | 27.3           | 218.7          | <b>107.7</b>    | 12.6            | 107.7           | <b>2.03</b>    | 200.5        | 25.1         | 200.5        |
| -21     | <b>212.8</b>   | 26.6           | 212.8          | <b>107.1</b>    | 12.5            | 107.1           | <b>1.99</b>    | 199.1        | 24.9         | 199.1        |
| -22     | <b>207.0</b>   | 25.9           | 207.0          | <b>106.4</b>    | 12.5            | 106.4           | <b>1.94</b>    | 197.7        | 24.7         | 197.7        |
| -23     | <b>201.2</b>   | 25.2           | 201.2          | <b>105.8</b>    | 12.4            | 105.8           | <b>1.90</b>    | 196.3        | 24.5         | 196.3        |
| -24     | <b>195.6</b>   | 24.4           | 195.6          | <b>105.0</b>    | 12.3            | 105.0           | <b>1.86</b>    | 194.7        | 24.3         | 194.7        |
| -25     | <b>190.0</b>   | 23.7           | 190.0          | <b>104.2</b>    | 12.2            | 104.2           | <b>1.82</b>    | 193.0        | 24.1         | 193.0        |

\* Achtung: Betriebsgrenzen beachten - nicht in Tabelle festgehalten

# WAMAK AW 400 EVI HeavyDuty 2L4

| Th [°C] |                | 55 °C          |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | 588.0          | 73.5           | 588.0          | 141.8           | 16.6            | 141.8           | 4.15           | 245.2        | 30.7         | 245.2        |
| 24      | 577.5          | 72.2           | 577.5          | 141.9           | 16.6            | 141.9           | 4.07           | 245.3        | 30.7         | 245.3        |
| 23      | 567.2          | 70.9           | 567.2          | 142.0           | 16.6            | 142.0           | 3.99           | 245.4        | 30.7         | 245.4        |
| 22      | 557.0          | 69.6           | 557.0          | 142.1           | 16.6            | 142.1           | 3.92           | 245.4        | 30.7         | 245.4        |
| 21      | 547.0          | 68.4           | 547.0          | 142.2           | 16.6            | 142.2           | 3.85           | 245.5        | 30.7         | 245.5        |
| 20      | 537.1          | 67.1           | 537.1          | 142.3           | 16.7            | 142.3           | 3.77           | 245.6        | 30.7         | 245.6        |
| 19      | 527.3          | 65.9           | 527.3          | 142.4           | 16.7            | 142.4           | 3.70           | 245.7        | 30.7         | 245.7        |
| 18      | 517.7          | 64.7           | 517.7          | 142.5           | 16.7            | 142.5           | 3.63           | 245.8        | 30.7         | 245.8        |
| 17      | 508.1          | 63.5           | 508.1          | 142.5           | 16.7            | 142.5           | 3.56           | 245.9        | 30.7         | 245.9        |
| 16      | 498.8          | 62.3           | 498.8          | 142.6           | 16.7            | 142.6           | 3.50           | 245.9        | 30.7         | 245.9        |
| 15      | 489.5          | 61.2           | 489.5          | 142.7           | 16.7            | 142.7           | 3.43           | 246.0        | 30.8         | 246.0        |
| 14      | 480.4          | 60.0           | 480.4          | 142.8           | 16.7            | 142.8           | 3.36           | 246.1        | 30.8         | 246.1        |
| 13      | 471.3          | 58.9           | 471.3          | 142.8           | 16.7            | 142.8           | 3.30           | 246.1        | 30.8         | 246.1        |
| 12      | 462.4          | 57.8           | 462.4          | 142.9           | 16.7            | 142.9           | 3.24           | 246.2        | 30.8         | 246.2        |
| 11      | 453.7          | 56.7           | 453.7          | 142.9           | 16.7            | 142.9           | 3.17           | 246.2        | 30.8         | 246.2        |
| 10      | 445.0          | 55.6           | 445.0          | 142.9           | 16.7            | 142.9           | 3.11           | 246.2        | 30.8         | 246.2        |
| 9       | 429.3          | 53.7           | 429.3          | 142.9           | 16.7            | 142.9           | 3.00           | 246.1        | 30.8         | 246.1        |
| 8       | 414.5          | 51.8           | 414.5          | 142.9           | 16.7            | 142.9           | 2.90           | 246.0        | 30.7         | 246.0        |
| 7       | 400.7          | 50.1           | 400.7          | 142.8           | 16.7            | 142.8           | 2.81           | 245.8        | 30.7         | 245.8        |
| 6       | 387.9          | 48.5           | 387.9          | 142.7           | 16.7            | 142.7           | 2.72           | 245.5        | 30.7         | 245.5        |
| 5       | 376.0          | 47.0           | 376.0          | 142.5           | 16.7            | 142.5           | 2.64           | 245.1        | 30.6         | 245.1        |
| 4       | 365.1          | 45.6           | 365.1          | 142.3           | 16.7            | 142.3           | 2.57           | 244.7        | 30.6         | 244.7        |
| 3       | 355.0          | 44.4           | 355.0          | 142.1           | 16.6            | 142.1           | 2.50           | 244.2        | 30.5         | 244.2        |
| 2       | 345.7          | 43.2           | 345.7          | 141.8           | 16.6            | 141.8           | 2.44           | 243.7        | 30.5         | 243.7        |
| 1       | 337.2          | 42.1           | 337.2          | 141.5           | 16.6            | 141.5           | 2.38           | 243.1        | 30.4         | 243.1        |
| 0       | 329.4          | 41.2           | 329.4          | 141.2           | 16.5            | 141.2           | 2.33           | 242.5        | 30.3         | 242.5        |
| -1      | 322.4          | 40.3           | 322.4          | 141.0           | 16.5            | 141.0           | 2.29           | 241.9        | 30.2         | 241.9        |
| -2      | 316.1          | 39.5           | 316.1          | 140.7           | 16.5            | 140.7           | 2.25           | 241.4        | 30.2         | 241.4        |
| -3      | 310.5          | 38.8           | 310.5          | 140.4           | 16.4            | 140.4           | 2.21           | 240.8        | 30.1         | 240.8        |
| -4      | 305.6          | 38.2           | 305.6          | 140.1           | 16.4            | 140.1           | 2.18           | 240.3        | 30.0         | 240.3        |
| -5      | 301.3          | 37.7           | 301.3          | 139.9           | 16.4            | 139.9           | 2.15           | 239.8        | 30.0         | 239.8        |
| -6      | 297.6          | 37.2           | 297.6          | 139.7           | 16.4            | 139.7           | 2.13           | 239.3        | 29.9         | 239.3        |
| -7      | 294.5          | 36.8           | 294.5          | 139.5           | 16.3            | 139.5           | 2.11           | 238.9        | 29.9         | 238.9        |
| -8      | 292.1          | 36.5           | 292.1          | 139.3           | 16.3            | 139.3           | 2.10           | 238.6        | 29.8         | 238.6        |
| -9      | 290.3          | 36.3           | 290.3          | 139.2           | 16.3            | 139.2           | 2.09           | 238.4        | 29.8         | 238.4        |
| -10     | 289.1          | 36.1           | 289.1          | 139.1           | 16.3            | 139.1           | 2.08           | 238.2        | 29.8         | 238.2        |
| -11     | 282.2          | 35.3           | 282.2          | 138.7           | 16.2            | 138.7           | 2.04           | 237.2        | 29.7         | 237.2        |
| -12     | 275.5          | 34.4           | 275.5          | 138.1           | 16.2            | 138.1           | 1.99           | 236.2        | 29.5         | 236.2        |
| -13     | 268.8          | 33.6           | 268.8          | 137.6           | 16.1            | 137.6           | 1.95           | 235.0        | 29.4         | 235.0        |
| -14     | 262.1          | 32.8           | 262.1          | 137.0           | 16.0            | 137.0           | 1.91           | 233.8        | 29.2         | 233.8        |
| -15     | 255.6          | 31.9           | 255.6          | 136.4           | 16.0            | 136.4           | 1.87           | 232.5        | 29.1         | 232.5        |
| -16     | 249.1          | 31.1           | 249.1          | 135.7           | 15.9            | 135.7           | 1.84           | 231.2        | 28.9         | 231.2        |
| -17     | 242.7          | 30.3           | 242.7          | 135.0           | 15.8            | 135.0           | 1.80           | 229.7        | 28.7         | 229.7        |
| -18     | 236.4          | 29.5           | 236.4          | 134.2           | 15.7            | 134.2           | 1.76           | 228.1        | 28.5         | 228.1        |
| -19     | 230.1          | 28.8           | 230.1          | 133.4           | 15.6            | 133.4           | 1.72           | 226.5        | 28.3         | 226.5        |
| -20     | 223.9          | 28.0           | 223.9          | 132.6           | 15.5            | 132.6           | 1.69           | 224.8        | 28.1         | 224.8        |
| -21     | 217.7          | 27.2           | 217.7          | 131.7           | 15.4            | 131.7           | 1.65           | 222.9        | 27.9         | 222.9        |
| -22     | 211.6          | 26.4           | 211.6          | 130.8           | 15.3            | 130.8           | 1.62           | 221.0        | 27.6         | 221.0        |
| -23     | 205.5          | 25.7           | 205.5          | 129.8           | 15.2            | 129.8           | 1.58           | 219.0        | 27.4         | 219.0        |
| -24     | 199.5          | 24.9           | 199.5          | 128.8           | 15.1            | 128.8           | 1.55           | 216.8        | 27.1         | 216.8        |
| -25     | 193.6          | 24.2           | 193.6          | 127.7           | 15.0            | 127.7           | 1.52           | 214.6        | 26.8         | 214.6        |

\* Achtung: Betriebsgrenzen beachten - nicht in Tabelle festgehalten

# WAMAK AW 400 EVI HeavyDuty 2L4

| Th [°C] |                | T-Max @ 65 °C  |                |                 |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qh nom<br>[kW] | Qh min<br>[kW] | Qh max<br>[kW] | Pin nom<br>[kW] | Pin-min<br>[kW] | Pin-max<br>[kW] | COP<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 25      | <b>583.7</b>   | 73.0           | 583.7          | <b>180.8</b>    | 21.2            | 180.8           | <b>3.23</b>    | 289.1        | 36.1         | 289.1        |
| 24      | <b>574.0</b>   | 71.8           | 574.0          | <b>180.9</b>    | 21.2            | 180.9           | <b>3.17</b>    | 289.3        | 36.2         | 289.3        |
| 23      | <b>564.4</b>   | 70.5           | 564.4          | <b>181.0</b>    | 21.2            | 181.0           | <b>3.12</b>    | 289.5        | 36.2         | 289.5        |
| 22      | <b>554.9</b>   | 69.4           | 554.9          | <b>181.1</b>    | 21.2            | 181.1           | <b>3.06</b>    | 289.8        | 36.2         | 289.8        |
| 21      | <b>545.5</b>   | 68.2           | 545.5          | <b>181.2</b>    | 21.2            | 181.2           | <b>3.01</b>    | 290.0        | 36.2         | 290.0        |
| 20      | <b>536.2</b>   | 67.0           | 536.2          | <b>181.3</b>    | 21.2            | 181.3           | <b>2.96</b>    | 290.2        | 36.3         | 290.2        |
| 19      | <b>527.0</b>   | 65.9           | 527.0          | <b>181.3</b>    | 21.2            | 181.3           | <b>2.91</b>    | 290.3        | 36.3         | 290.3        |
| 18      | <b>517.9</b>   | 64.7           | 517.9          | <b>181.4</b>    | 21.2            | 181.4           | <b>2.86</b>    | 290.5        | 36.3         | 290.5        |
| 17      | <b>509.0</b>   | 63.6           | 509.0          | <b>181.4</b>    | 21.2            | 181.4           | <b>2.81</b>    | 290.6        | 36.3         | 290.6        |
| 16      | <b>500.1</b>   | 62.5           | 500.1          | <b>181.5</b>    | 21.2            | 181.5           | <b>2.76</b>    | 290.8        | 36.3         | 290.8        |
| 15      | <b>491.4</b>   | 61.4           | 491.4          | <b>181.5</b>    | 21.2            | 181.5           | <b>2.71</b>    | 290.9        | 36.4         | 290.9        |
| 14      | <b>482.7</b>   | 60.3           | 482.7          | <b>181.5</b>    | 21.3            | 181.5           | <b>2.66</b>    | 291.0        | 36.4         | 291.0        |
| 13      | <b>474.1</b>   | 59.3           | 474.1          | <b>181.5</b>    | 21.2            | 181.5           | <b>2.61</b>    | 291.0        | 36.4         | 291.0        |
| 12      | <b>465.7</b>   | 58.2           | 465.7          | <b>181.4</b>    | 21.2            | 181.4           | <b>2.57</b>    | 291.1        | 36.4         | 291.1        |
| 11      | <b>457.3</b>   | 57.2           | 457.3          | <b>181.4</b>    | 21.2            | 181.4           | <b>2.52</b>    | 291.1        | 36.4         | 291.1        |
| 10      | <b>449.0</b>   | 56.1           | 449.0          | <b>181.3</b>    | 21.2            | 181.3           | <b>2.48</b>    | 291.1        | 36.4         | 291.1        |
| 9       | <b>434.0</b>   | 54.2           | 434.0          | <b>181.1</b>    | 21.2            | 181.1           | <b>2.40</b>    | 290.9        | 36.4         | 290.9        |
| 8       | <b>419.8</b>   | 52.5           | 419.8          | <b>180.9</b>    | 21.2            | 180.9           | <b>2.32</b>    | 290.7        | 36.3         | 290.7        |
| 7       | <b>406.5</b>   | 50.8           | 406.5          | <b>180.6</b>    | 21.1            | 180.6           | <b>2.25</b>    | 290.3        | 36.3         | 290.3        |
| 6       | <b>394.0</b>   | 49.3           | 394.0          | <b>180.2</b>    | 21.1            | 180.2           | <b>2.19</b>    | 289.8        | 36.2         | 289.8        |
| 5       | <b>382.5</b>   | 47.8           | 382.5          | <b>179.8</b>    | 21.1            | 179.8           | <b>2.13</b>    | 289.2        | 36.2         | 289.2        |
| 4       | <b>371.8</b>   | 46.5           | 371.8          | <b>179.4</b>    | 21.0            | 179.4           | <b>2.07</b>    | 288.6        | 36.1         | 288.6        |
| 3       | <b>361.9</b>   | 45.2           | 361.9          | <b>178.9</b>    | 21.0            | 178.9           | <b>2.02</b>    | 287.9        | 36.0         | 287.9        |
| 2       | <b>352.7</b>   | 44.1           | 352.7          | <b>178.4</b>    | 20.9            | 178.4           | <b>1.98</b>    | 287.1        | 35.9         | 287.1        |
| 1       | <b>344.4</b>   | 43.0           | 344.4          | <b>177.9</b>    | 20.8            | 177.9           | <b>1.94</b>    | 286.3        | 35.8         | 286.3        |
| 0       | <b>336.7</b>   | 42.1           | 336.7          | <b>177.5</b>    | 20.8            | 177.5           | <b>1.90</b>    | 285.5        | 35.7         | 285.5        |
| -1      | <b>329.7</b>   | 41.2           | 329.7          | <b>177.0</b>    | 20.7            | 177.0           | <b>1.86</b>    | 284.7        | 35.6         | 284.7        |
| -2      | <b>323.4</b>   | 40.4           | 323.4          | <b>176.5</b>    | 20.7            | 176.5           | <b>1.83</b>    | 283.9        | 35.5         | 283.9        |
| -3      | <b>317.8</b>   | 39.7           | 317.8          | <b>176.0</b>    | 20.6            | 176.0           | <b>1.81</b>    | 283.1        | 35.4         | 283.1        |
| -4      | <b>312.8</b>   | 39.1           | 312.8          | <b>175.6</b>    | 20.6            | 175.6           | <b>1.78</b>    | 282.4        | 35.3         | 282.4        |
| -5      | <b>308.5</b>   | 38.6           | 308.5          | <b>175.2</b>    | 20.5            | 175.2           | <b>1.76</b>    | 281.8        | 35.2         | 281.8        |
| -6      | <b>304.8</b>   | 38.1           | 304.8          | <b>174.9</b>    | 20.5            | 174.9           | <b>1.74</b>    | 281.2        | 35.1         | 281.2        |
| -7      | <b>301.8</b>   | 37.7           | 301.8          | <b>174.6</b>    | 20.4            | 174.6           | <b>1.73</b>    | 280.7        | 35.1         | 280.7        |
| -8      | <b>299.3</b>   | 37.4           | 299.3          | <b>174.3</b>    | 20.4            | 174.3           | <b>1.72</b>    | 280.2        | 35.0         | 280.2        |
| -9      | <b>297.5</b>   | 37.2           | 297.5          | <b>174.1</b>    | 20.4            | 174.1           | <b>1.71</b>    | 279.9        | 35.0         | 279.9        |
| -10     | <b>296.2</b>   | 37.0           | 296.2          | <b>174.0</b>    | 20.4            | 174.0           | <b>1.70</b>    | 279.7        | 35.0         | 279.7        |
| -11     | <b>289.3</b>   | 36.2           | 289.3          | <b>173.3</b>    | 20.3            | 173.3           | <b>1.67</b>    | 278.4        | 34.8         | 278.4        |
| -12     | <b>282.4</b>   | 35.3           | 282.4          | <b>172.5</b>    | 20.2            | 172.5           | <b>1.64</b>    | 277.0        | 34.6         | 277.0        |
| -13     | <b>275.6</b>   | 34.4           | 275.6          | <b>171.6</b>    | 20.1            | 171.6           | <b>1.61</b>    | 275.5        | 34.4         | 275.5        |
| -14     | <b>268.8</b>   | 33.6           | 268.8          | <b>170.8</b>    | 20.0            | 170.8           | <b>1.57</b>    | 273.9        | 34.2         | 273.9        |
| -15     | <b>262.0</b>   | 32.8           | 262.0          | <b>169.8</b>    | 19.9            | 169.8           | <b>1.54</b>    | 272.3        | 34.0         | 272.3        |
| -16     |                |                |                |                 |                 |                 |                |              |              |              |
| -17     |                |                |                |                 |                 |                 |                |              |              |              |
| -18     |                |                |                |                 |                 |                 |                |              |              |              |
| -19     |                |                |                |                 |                 |                 |                |              |              |              |
| -20     |                |                |                |                 |                 |                 |                |              |              |              |
| -21     |                |                |                |                 |                 |                 |                |              |              |              |
| -22     |                |                |                |                 |                 |                 |                |              |              |              |
| -23     |                |                |                |                 |                 |                 |                |              |              |              |
| -24     |                |                |                |                 |                 |                 |                |              |              |              |
| -25     |                |                |                |                 |                 |                 |                |              |              |              |

\* Achtung: Betriebsgrenzen beachten - nicht in Tabelle festgehalten

# WAMAK AW 400 EVI HeavyDuty 2L4

| Tc [°C] |                | W 12 / 7 °C    |                |              |                 |                 |                |              |              |              |
|---------|----------------|----------------|----------------|--------------|-----------------|-----------------|----------------|--------------|--------------|--------------|
| Ta [°C] | Qc nom<br>[kW] | Qc min<br>[kW] | Qc max<br>[kW] | Pin<br>[kW]  | Pin min<br>[kW] | Pin max<br>[kW] | EER<br>kW / kW | I nom<br>[A] | I min<br>[A] | I max<br>[A] |
| 40      | <b>281.6</b>   | 281.6          | 281.6          | <b>121.6</b> | 113.9           | 121.6           | <b>2.32</b>    | 221.9        | 221.9        | 221.9        |
| 39      | <b>283.6</b>   | 283.6          | 283.6          | <b>118.9</b> | 111.4           | 118.9           | <b>2.38</b>    | 218.9        | 218.9        | 218.9        |
| 38      | <b>285.6</b>   | 285.6          | 285.6          | <b>116.3</b> | 108.9           | 116.3           | <b>2.46</b>    | 216.0        | 216.0        | 216.0        |
| 37      | <b>287.4</b>   | 287.4          | 287.4          | <b>113.7</b> | 106.5           | 113.7           | <b>2.53</b>    | 213.2        | 213.2        | 213.2        |
| 36      | <b>289.3</b>   | 289.3          | 289.3          | <b>111.2</b> | 104.2           | 111.2           | <b>2.60</b>    | 210.5        | 210.5        | 210.5        |
| 35      | <b>291.0</b>   | 291.0          | 291.0          | <b>108.7</b> | 101.9           | 108.7           | <b>2.68</b>    | 207.8        | 207.8        | 207.8        |
| 34      | <b>292.8</b>   | 292.8          | 292.8          | <b>106.3</b> | 99.6            | 106.3           | <b>2.75</b>    | 205.3        | 205.3        | 205.3        |
| 33      | <b>294.4</b>   | 294.4          | 294.4          | <b>104.0</b> | 97.4            | 104.0           | <b>2.83</b>    | 202.7        | 202.7        | 202.7        |
| 32      | <b>296.0</b>   | 296.0          | 296.0          | <b>101.7</b> | 95.3            | 101.7           | <b>2.91</b>    | 200.3        | 200.3        | 200.3        |
| 31      | <b>297.6</b>   | 297.6          | 297.6          | <b>99.5</b>  | 93.2            | 99.5            | <b>2.99</b>    | 197.9        | 197.9        | 197.9        |
| 30      | <b>299.1</b>   | 299.1          | 299.1          | <b>97.3</b>  | 91.2            | 97.3            | <b>3.07</b>    | 195.5        | 195.5        | 195.5        |
| 29      | <b>300.6</b>   | 300.6          | 300.6          | <b>95.2</b>  | 89.2            | 95.2            | <b>3.16</b>    | 193.2        | 193.2        | 193.2        |
| 28      | <b>302.0</b>   | 302.0          | 302.0          | <b>93.1</b>  | 87.2            | 93.1            | <b>3.24</b>    | 191.0        | 191.0        | 191.0        |
| 27      | <b>303.3</b>   | 303.3          | 303.3          | <b>91.1</b>  | 85.3            | 91.1            | <b>3.33</b>    | 188.8        | 188.8        | 188.8        |
| 26      | <b>304.6</b>   | 304.6          | 304.6          | <b>89.1</b>  | 83.4            | 89.1            | <b>3.42</b>    | 186.6        | 186.6        | 186.6        |
| 25      | <b>305.9</b>   | 305.9          | 305.9          | <b>87.1</b>  | 81.6            | 87.1            | <b>3.51</b>    | 184.5        | 184.5        | 184.5        |
| 24      | <b>307.1</b>   | 307.1          | 307.1          | <b>85.2</b>  | 79.8            | 85.2            | <b>3.60</b>    | 182.4        | 182.4        | 182.4        |
| 23      | <b>308.3</b>   | 308.3          | 308.3          | <b>83.3</b>  | 78.0            | 83.3            | <b>3.70</b>    | 180.3        | 180.3        | 180.3        |
| 22      | <b>309.4</b>   | 309.4          | 309.4          | <b>81.4</b>  | 76.3            | 81.4            | <b>3.80</b>    | 178.3        | 178.3        | 178.3        |
| 21      | <b>310.4</b>   | 310.4          | 310.4          | <b>79.6</b>  | 74.6            | 79.6            | <b>3.90</b>    | 176.2        | 176.2        | 176.2        |
| 20      | <b>311.5</b>   | 311.5          | 311.5          | <b>77.8</b>  | 72.9            | 77.8            | <b>4.00</b>    | 174.2        | 174.2        | 174.2        |
| 19      | <b>312.4</b>   | 312.4          | 312.4          | <b>76.0</b>  | 71.2            | 76.0            | <b>4.11</b>    | 172.2        | 172.2        | 172.2        |
| 18      | <b>313.4</b>   | 313.4          | 313.4          | <b>74.3</b>  | 69.6            | 74.3            | <b>4.22</b>    | 170.2        | 170.2        | 170.2        |
| 17      | <b>314.3</b>   | 314.3          | 314.3          | <b>72.6</b>  | 68.0            | 72.6            | <b>4.33</b>    | 168.2        | 168.2        | 168.2        |

| Tc [°C] |              | W 23 / 18 °C   |                |              |                 |                 |                |          |              |              |
|---------|--------------|----------------|----------------|--------------|-----------------|-----------------|----------------|----------|--------------|--------------|
| Ta [°C] | Qc<br>[kW]   | Qh-min<br>[kW] | Qh-max<br>[kW] | Pin<br>[kW]  | Pin-min<br>[kW] | Pin-max<br>[kW] | EER<br>kW / kW | I<br>[A] | I-min<br>[A] | I-max<br>[A] |
| 40      | <b>375.5</b> | 375.5          | 375.5          | <b>121.6</b> | 113.9           | 121.6           | <b>3.09</b>    | 221.7    | 221.7        | 221.7        |
| 39      | <b>378.0</b> | 378.0          | 378.0          | <b>118.9</b> | 111.4           | 118.9           | <b>3.18</b>    | 218.6    | 218.6        | 218.6        |
| 38      | <b>380.5</b> | 380.5          | 380.5          | <b>116.3</b> | 108.9           | 116.3           | <b>3.27</b>    | 215.6    | 215.6        | 215.6        |
| 37      | <b>382.8</b> | 382.8          | 382.8          | <b>113.7</b> | 106.5           | 113.7           | <b>3.37</b>    | 212.6    | 212.6        | 212.6        |
| 36      | <b>385.2</b> | 385.2          | 385.2          | <b>111.2</b> | 104.2           | 111.2           | <b>3.46</b>    | 209.8    | 209.8        | 209.8        |
| 35      | <b>387.4</b> | 387.4          | 387.4          | <b>108.7</b> | 101.9           | 108.7           | <b>3.56</b>    | 207.0    | 207.0        | 207.0        |
| 34      | <b>389.6</b> | 389.6          | 389.6          | <b>106.3</b> | 99.6            | 106.3           | <b>3.66</b>    | 204.2    | 204.2        | 204.2        |
| 33      | <b>391.8</b> | 391.8          | 391.8          | <b>104.0</b> | 97.4            | 104.0           | <b>3.77</b>    | 201.6    | 201.6        | 201.6        |
| 32      | <b>393.9</b> | 393.9          | 393.9          | <b>101.7</b> | 95.3            | 101.7           | <b>3.87</b>    | 199.0    | 199.0        | 199.0        |
| 31      | <b>396.0</b> | 396.0          | 396.0          | <b>99.5</b>  | 93.2            | 99.5            | <b>3.98</b>    | 196.4    | 196.4        | 196.4        |
| 30      | <b>398.0</b> | 398.0          | 398.0          | <b>97.3</b>  | 91.2            | 97.3            | <b>4.09</b>    | 193.9    | 193.9        | 193.9        |
| 29      | <b>399.9</b> | 399.9          | 399.9          | <b>95.2</b>  | 89.2            | 95.2            | <b>4.20</b>    | 191.4    | 191.4        | 191.4        |
| 28      | <b>401.8</b> | 401.8          | 401.8          | <b>93.1</b>  | 87.2            | 93.1            | <b>4.32</b>    | 189.0    | 189.0        | 189.0        |
| 27      | <b>403.7</b> | 403.7          | 403.7          | <b>91.1</b>  | 85.3            | 91.1            | <b>4.43</b>    | 186.6    | 186.6        | 186.6        |
| 26      | <b>405.5</b> | 405.5          | 405.5          | <b>89.1</b>  | 83.4            | 89.1            | <b>4.55</b>    | 184.2    | 184.2        | 184.2        |
| 25      | <b>407.2</b> | 407.2          | 407.2          | <b>87.1</b>  | 81.6            | 87.1            | <b>4.67</b>    | 181.9    | 181.9        | 181.9        |
| 24      | <b>408.9</b> | 408.9          | 408.9          | <b>85.2</b>  | 79.8            | 85.2            | <b>4.80</b>    | 179.6    | 179.6        | 179.6        |
| 23      | <b>410.6</b> | 410.6          | 410.6          | <b>83.3</b>  | 78.0            | 83.3            | <b>4.93</b>    | 177.3    | 177.3        | 177.3        |
| 22      | <b>412.2</b> | 412.2          | 412.2          | <b>81.4</b>  | 76.3            | 81.4            | <b>5.06</b>    | 175.0    | 175.0        | 175.0        |
| 21      | <b>413.8</b> | 413.8          | 413.8          | <b>79.6</b>  | 74.6            | 79.6            | <b>5.20</b>    | 172.8    | 172.8        | 172.8        |
| 20      | <b>415.3</b> | 415.3          | 415.3          | <b>77.8</b>  | 72.9            | 77.8            | <b>5.34</b>    | 170.5    | 170.5        | 170.5        |
| 19      | <b>416.8</b> | 416.8          | 416.8          | <b>76.0</b>  | 71.2            | 76.0            | <b>5.48</b>    | 168.3    | 168.3        | 168.3        |
| 18      | <b>418.2</b> | 418.2          | 418.2          | <b>74.3</b>  | 69.6            | 74.3            | <b>5.63</b>    | 166.0    | 166.0        | 166.0        |
| 17      | <b>419.6</b> | 419.6          | 419.6          | <b>72.6</b>  | 68.0            | 72.6            | <b>5.78</b>    | 163.8    | 163.8        | 163.8        |

\* Achtung: Betriebsgrenzen beachten - nicht in Tabelle festgehalten

### LEGENDE:

Twq-RL: Temperatur Wärmequelle - Eintritt [°C]

Tws-VL: Temperatur Wärmesenke - Vorlauf [°C]

Tk-VL: Temperatur Kältesenke - Vorlauf [°C]

Qh nom: Heizleistung nominal

Qh min: Heizleistung minimal

Qh max: Heizleistung maximal

Pin nom: Aufnahme bei nominaler Heizleistung

Pin min: Aufnahme bei minimaler Heizleistung

Pin max: Aufnahme bei maximaler Heizleistung

COP nom: Arbeitszahl bei nominaler Heizleistung

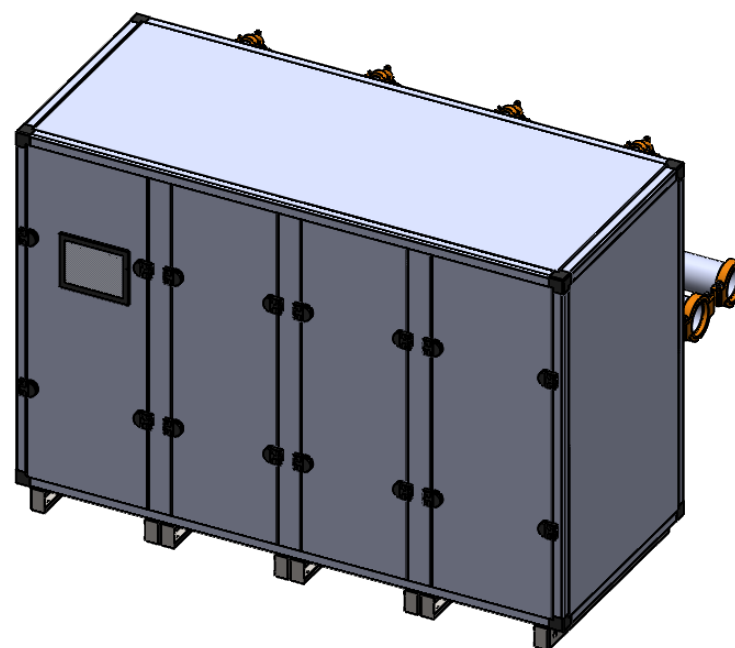
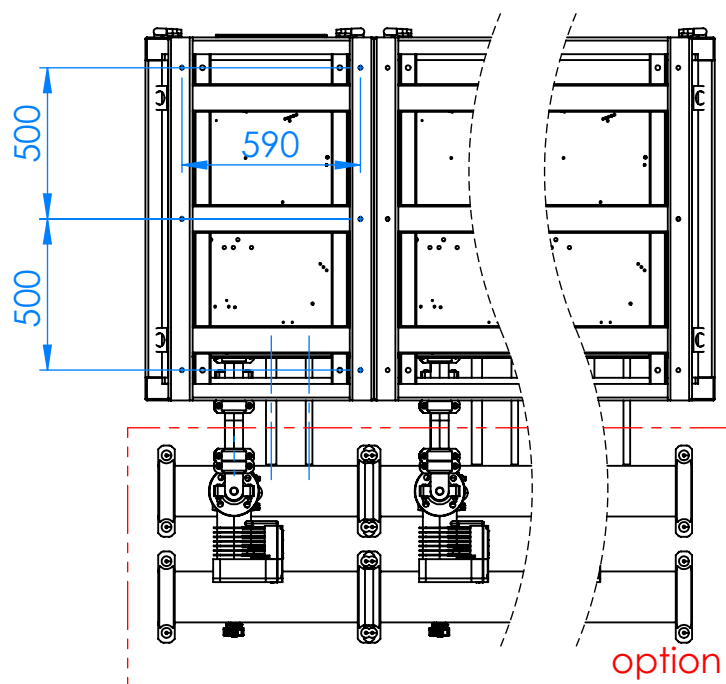
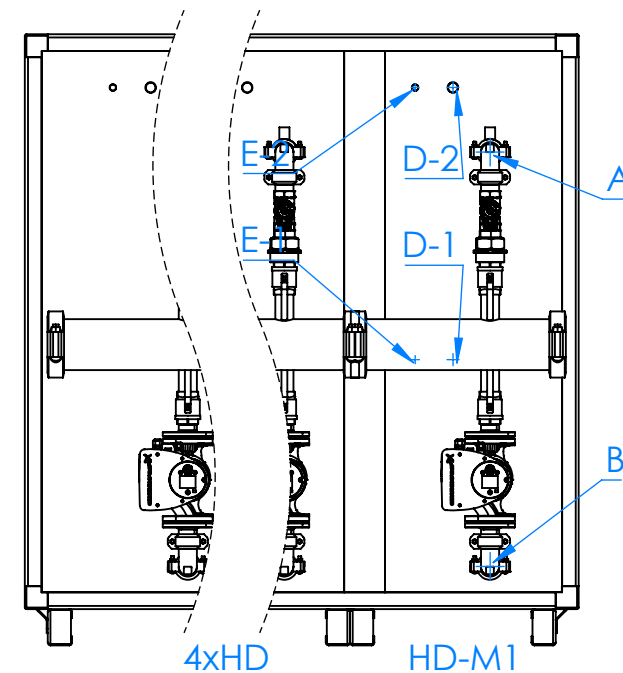
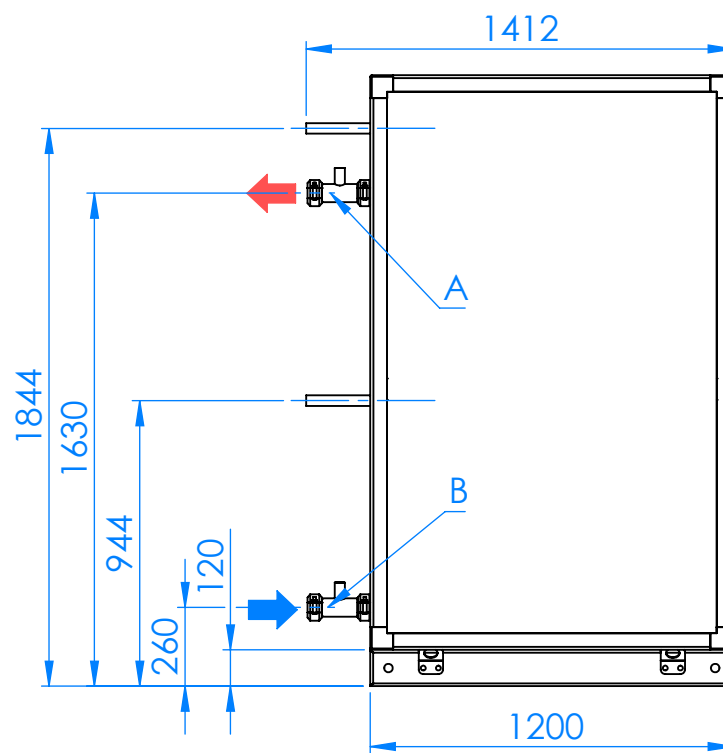
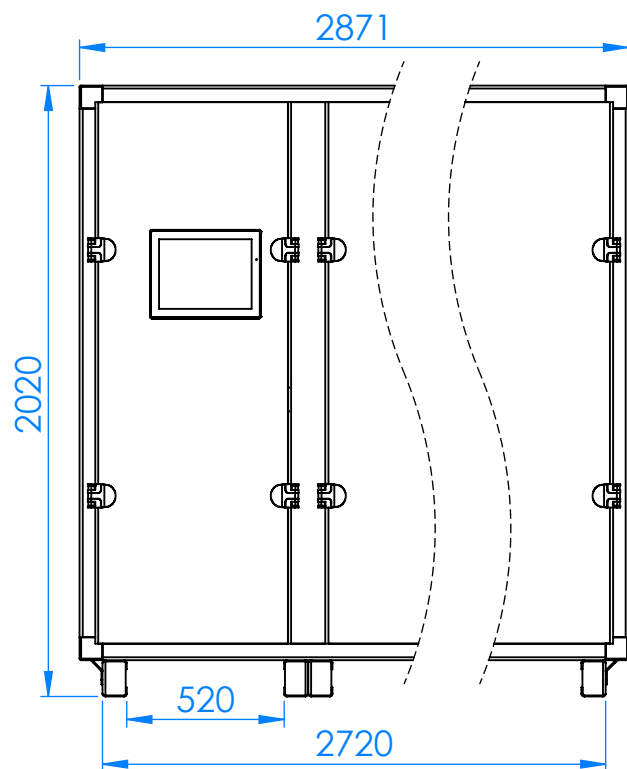
Qc nom: Kälteleistung/Energieentnahme bei nominaler Heizleistung

Qc min: Kälteleistung/Energieentnahme bei minimaler Heizleistung

Qc max: Kälteleistung/Energieentnahme bei maximaler Heizleistung

I nom: Stromaufnahme bei nominaler Heizleistung

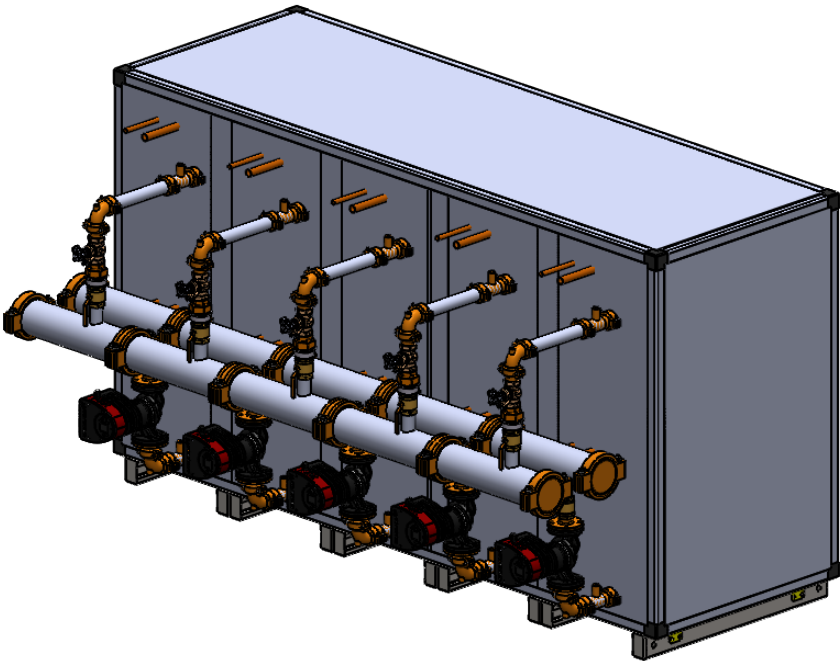
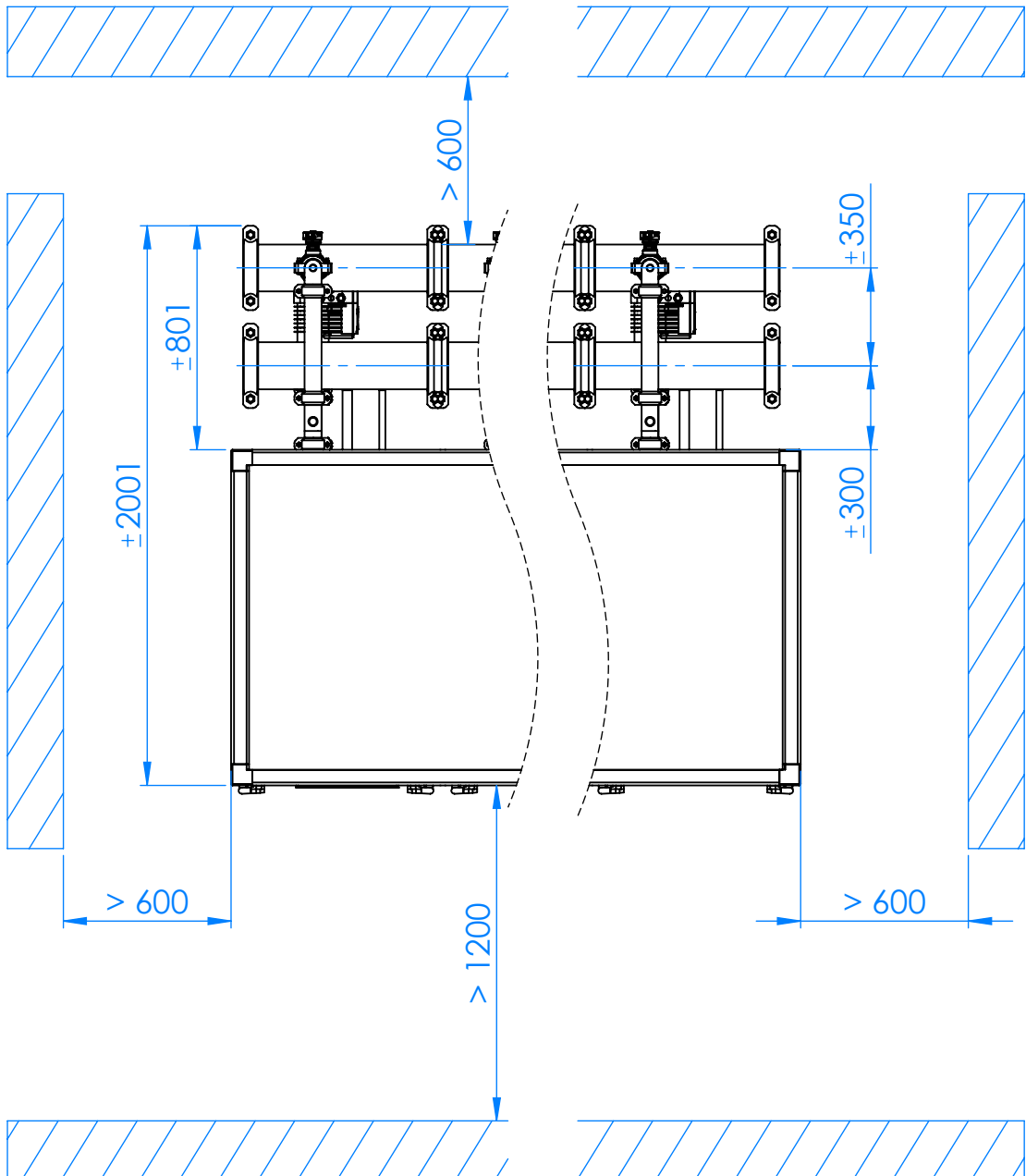
EER: Arbeitszahl bei nominaler Kälteleistung



D (1,2,x) - SPLIT - FRIGO GAS  
(Modul 1-2-x)

E (1,2,x) - SPLIT - FRIGO LIQUID  
(Modul 1-2-x)

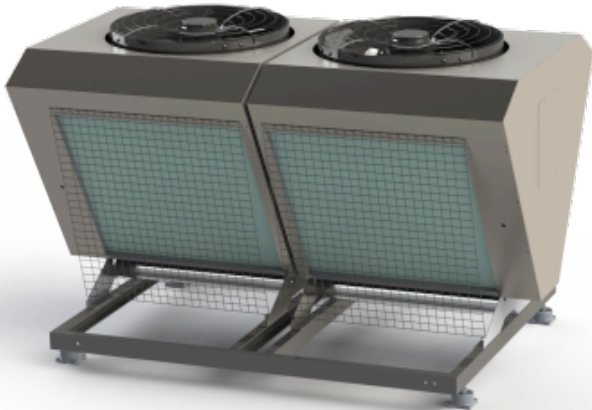




# WAMAK AW 400 EVI HeavyDuty 2L4 - Split Einheit Variante: VOV900X2-FRAME

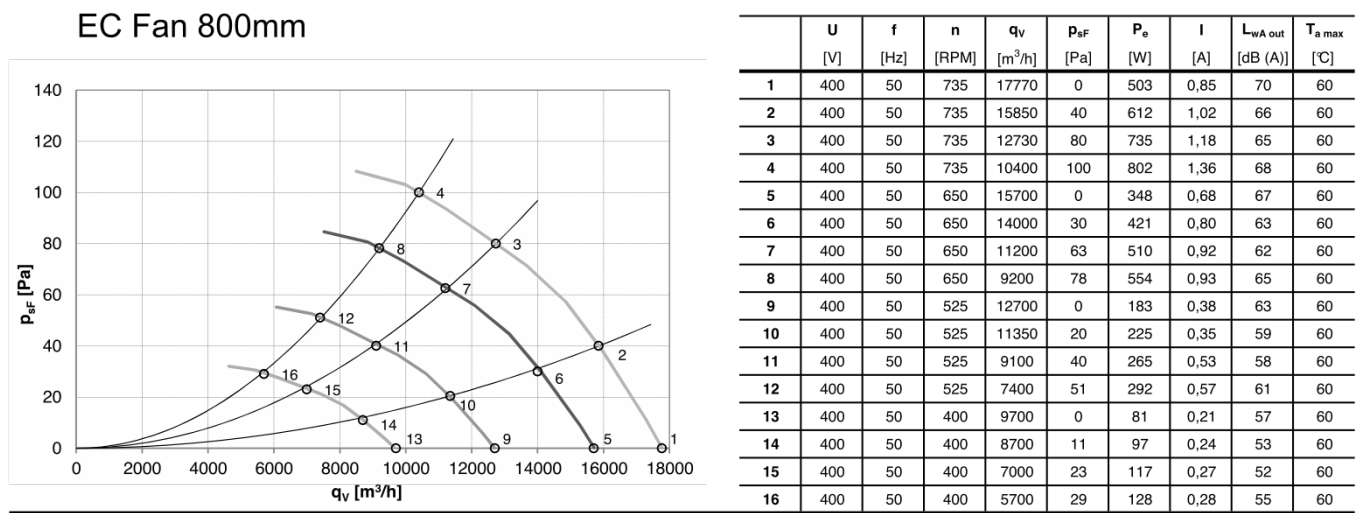
Anzahl von Einheiten

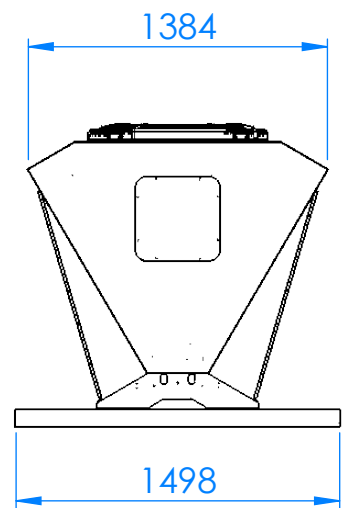
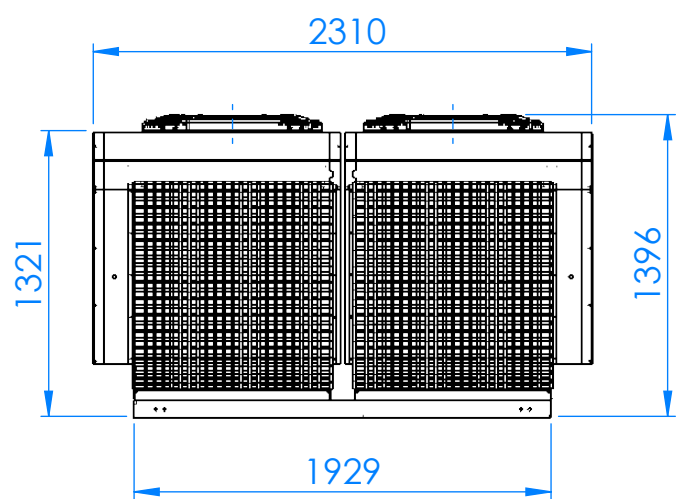
4



| Gehäuse Bezeichnung: VOV900X2-FRAME |             |      | Verdampfer                          |                       |
|-------------------------------------|-------------|------|-------------------------------------|-----------------------|
| Artikel                             | WAVV2X90    |      | Bauart                              | Cu-coil /Al-fin "     |
| Grundlegende Abmessungen            | Hohe [mm]   | 1400 | Anschlussdimension                  | 8 x (7/8" - 1.3/8") " |
|                                     | Breite [mm] | 1500 | Wärmeträger                         | Luft                  |
|                                     | Länge [mm]  | 2300 | Volumenstrom - Luft [m3/h]          | 15073 ~ 120580        |
| Gewicht [kg]                        | 430         |      | Interne Druckdifferenz - Luft [kPa] | 8 x 0.061             |
| Gehäuse Farbe                       | Edelstahl   |      | Temperaturdifferenz - Luft          | 7 K                   |
| Gehäuse IP Klasse                   | IP44        |      | Expansionsventil                    | EEV                   |
| Ventilator                          | 800 mm      |      |                                     |                       |
| Anzahl von Ventilatoren             | 2           |      | Ventilator Installation             | Vertikalachse         |
| Motor von Ventilator, Typ           | EC          |      | Ventilator Bauart                   | Axial                 |
| Ventilator Strom Nominal [A]        | 1.35        |      | Ventilator Einspeisung [V/Hz]       | 3~ 400/50             |
| Minimale Leistungsaufnahme [Watt]   | 81          |      | Maximale Leistungsaufnahme [Watt]   | 802                   |

|                             |                                                                                                                                                                            |      |      |    |                                                                                                                                                                             |      |      |    |                                                                                                                                                                                |      |      |    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| Schallleistungspegel Lw     | <br> |      |      |    | <br> |      |      |    | <br> |      |      |    |
|                             | 79.5 dB(A)                                                                                                                                                                 |      |      |    |                                                                                                                                                                             |      |      |    |                                                                                                                                                                                |      |      |    |
| Entfernung [m]              | 1                                                                                                                                                                          | 5    | 10   | 15 | 1                                                                                                                                                                           | 5    | 10   | 15 | 1                                                                                                                                                                              | 5    | 10   | 15 |
| Schalldruckpegel Lp [dB(A)] | 74.5                                                                                                                                                                       | 60.5 | 54.5 | 51 | 77.5                                                                                                                                                                        | 63.5 | 57.5 | 54 | 71.5                                                                                                                                                                           | 57.5 | 51.5 | 48 |

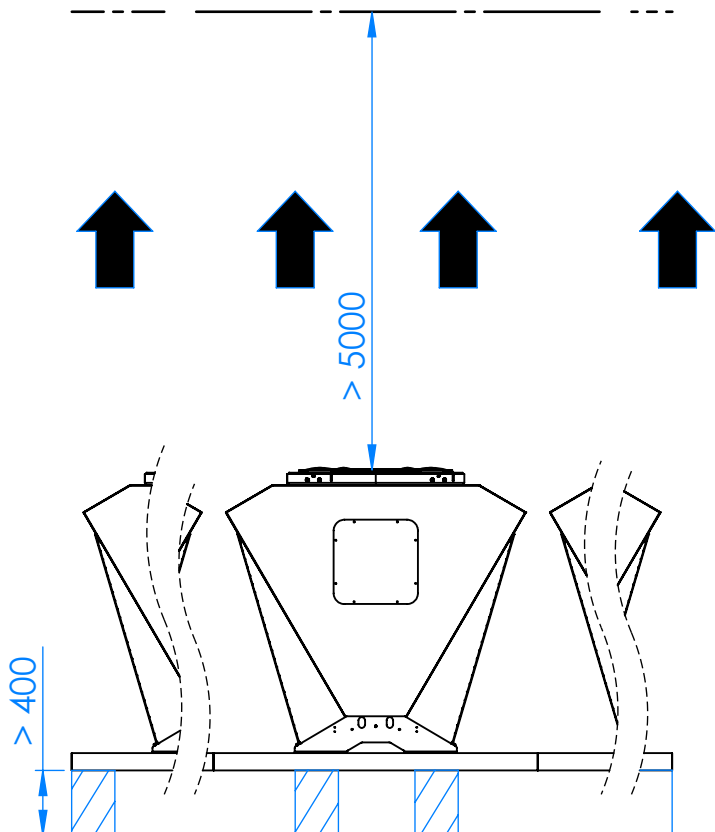
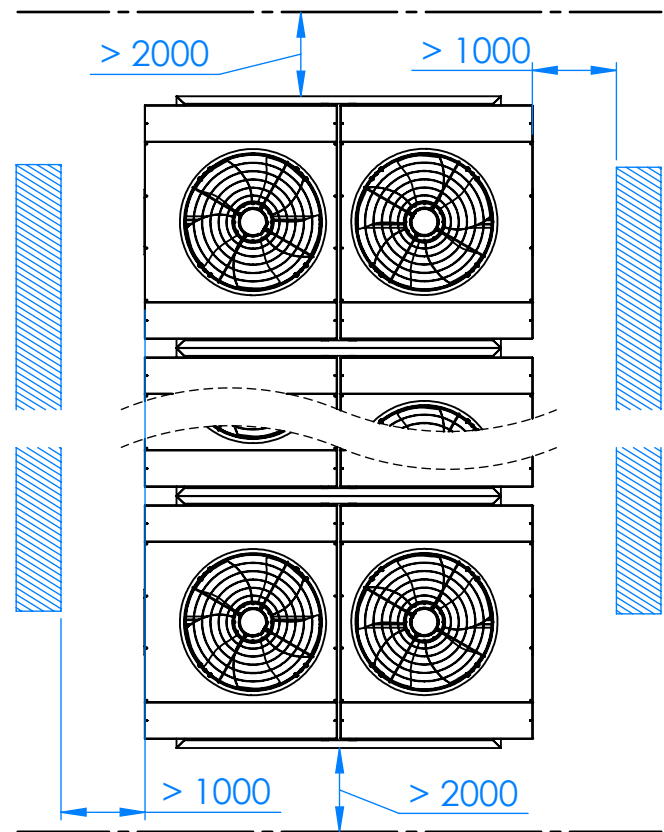
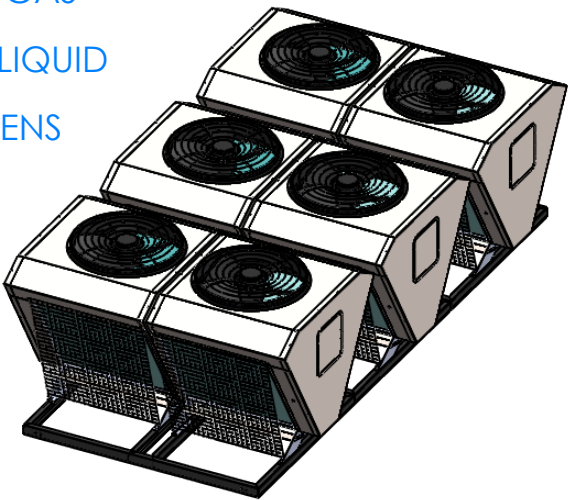
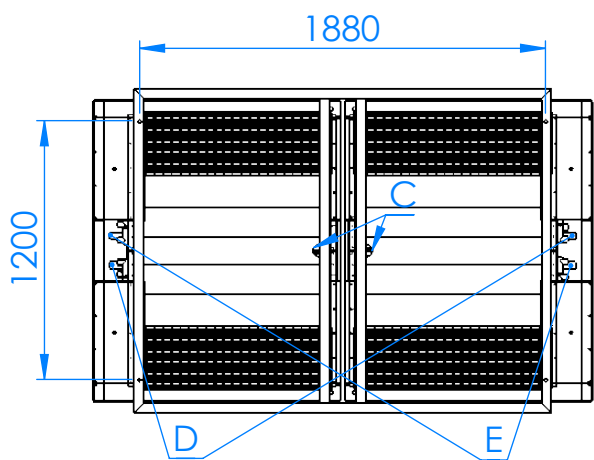




D - FRIGO GAS

E - FRIGO LIQUID

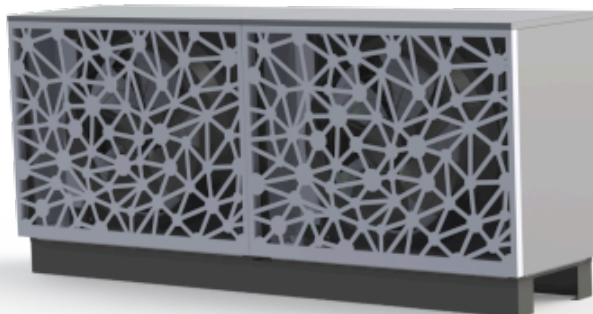
C - CONDENS



# WAMAK AW 400 EVI HeavyDuty 2L4 - Split Einheit Variante: VOII-1200-2LOW

## Anzahl von Einheiten

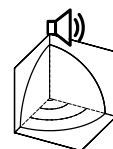
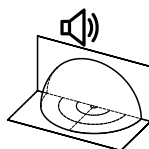
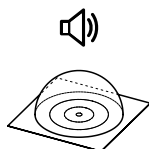
8



| Gehäuse Bezeichnung: VOII-1200-2LOW |             |      | Verdampfer                          |                       |
|-------------------------------------|-------------|------|-------------------------------------|-----------------------|
| Artikel                             | WAVII12L    |      | Bauart                              | Cu-coil /Al-fin "     |
| Grundlegende Abmessungen            | Hohe [mm]   | 1240 | Anschlussdimension                  | 8 x (7/8" - 1.3/8") " |
|                                     | Breite [mm] | 2850 | Wärmeträger                         | Luft                  |
|                                     | Länge [mm]  | 710  | Volumenstrom - Luft [m3/h]          | 15073 ~ 120580        |
| Gewicht [kg]                        | 300         |      | Interne Druckdifferenz - Luft [kPa] | 8 x 0.061             |
| Gehäuse Farbe                       | Grau        |      | Temperaturdifferenz - Luft          | 7 K                   |
| Gehäuse IP Klasse                   | IP44        |      | Expansionsventil                    | EEV                   |
| Ventilator                          | 800 mm      |      |                                     |                       |
| Anzahl von Ventilatoren             | 2           |      | Ventilator Installation             | Horizontalachse       |
| Motor von Ventilator, Typ           | EC          |      | Ventilator Bauart                   | Axial                 |
| Ventilator Strom Nominal [A]        | 1.35        |      | Ventilator Einspeisung [V/Hz]       | 3~ 400/50             |
| Minimale Leistungsaufnahme [Watt]   | 81          |      | Maximale Leistungsaufnahme [Watt]   | 802                   |

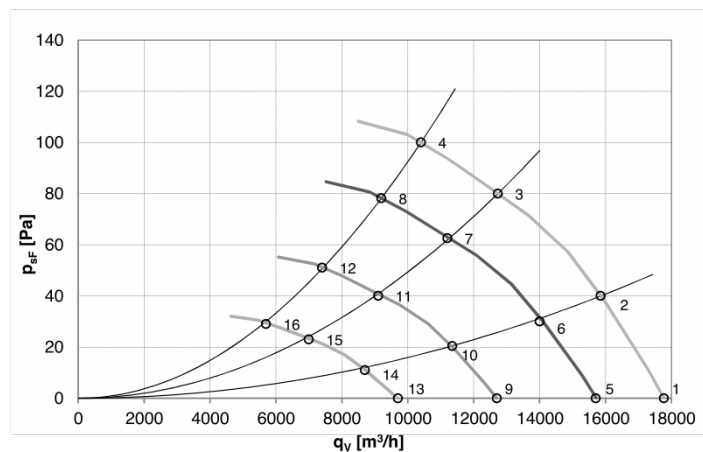
Schallleistungspegel L<sub>w</sub>

76.1 dB(A)

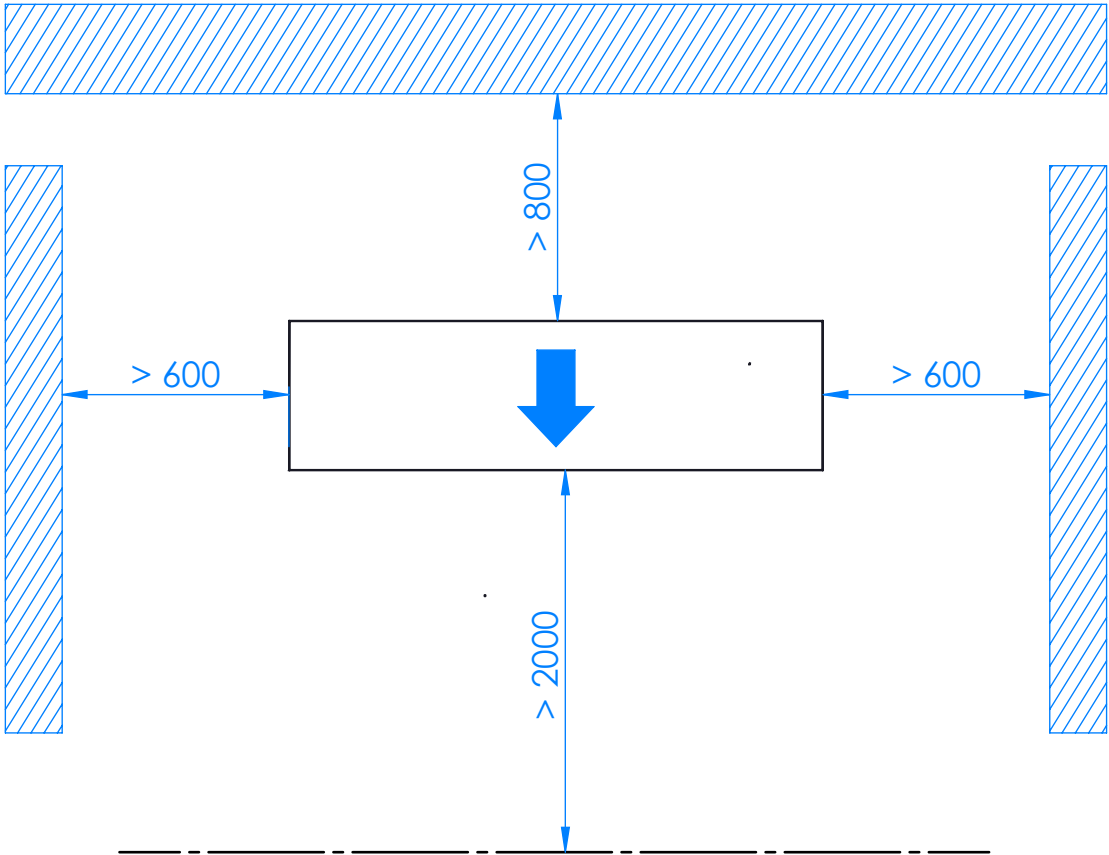
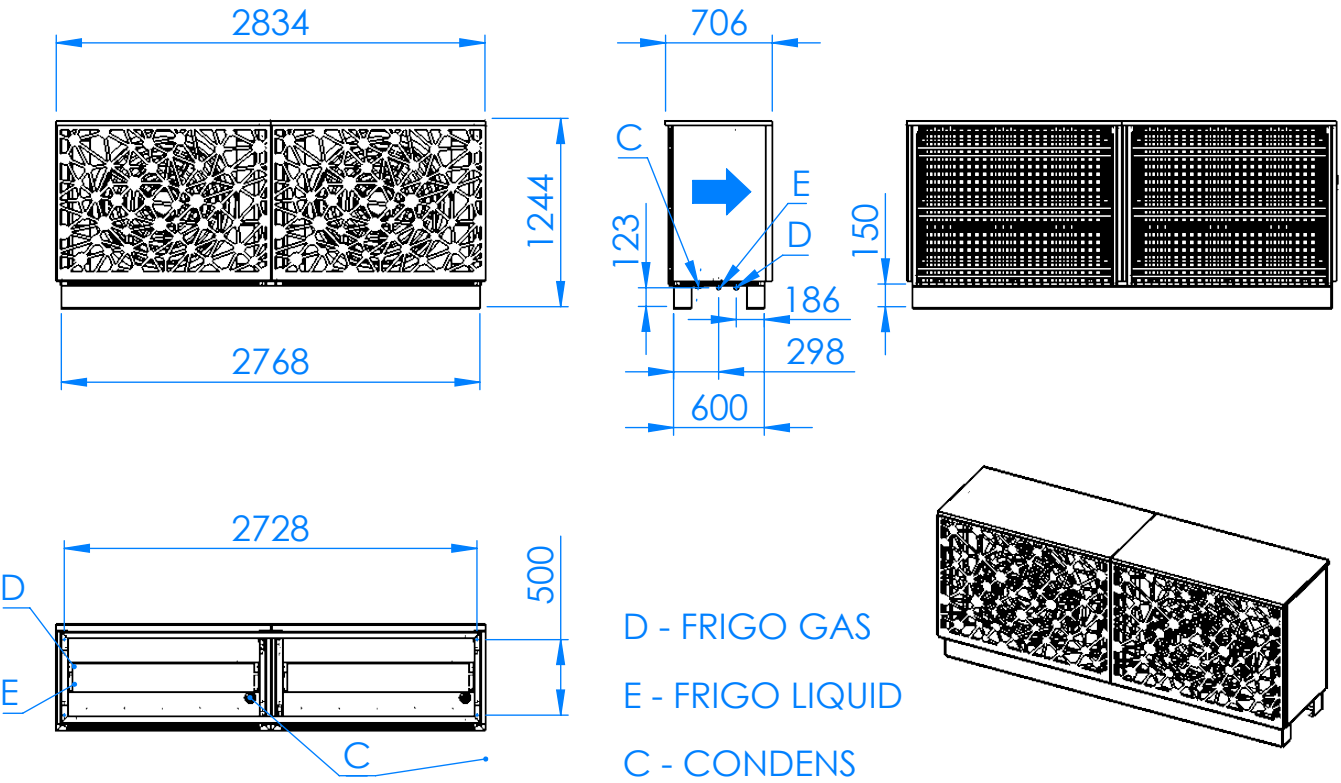


| Entfernung [m]                          | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   |
|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Schalldruckpegel L <sub>p</sub> [dB(A)] | 71.1 | 57.1 | 51.1 | 47.6 | 74.1 | 60.1 | 54.1 | 50.6 | 68.1 | 54.1 | 48.1 | 44.6 |

## EC Fan 800mm



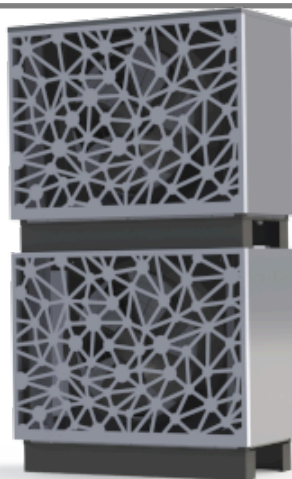
|    | U   | f    | n     | q <sub>v</sub> | p <sub>sF</sub> | P <sub>e</sub> | I    | L <sub>WA out</sub> | T <sub>a max</sub> |
|----|-----|------|-------|----------------|-----------------|----------------|------|---------------------|--------------------|
|    | [V] | [Hz] | [RPM] | [m³/h]         | [Pa]            | [W]            | [A]  | [dB (A)]            | [°C]               |
| 1  | 400 | 50   | 735   | 17770          | 0               | 503            | 0,85 | 70                  | 60                 |
| 2  | 400 | 50   | 735   | 15850          | 40              | 612            | 1,02 | 66                  | 60                 |
| 3  | 400 | 50   | 735   | 12730          | 80              | 735            | 1,18 | 65                  | 60                 |
| 4  | 400 | 50   | 735   | 10400          | 100             | 802            | 1,36 | 68                  | 60                 |
| 5  | 400 | 50   | 650   | 15700          | 0               | 348            | 0,68 | 67                  | 60                 |
| 6  | 400 | 50   | 650   | 14000          | 30              | 421            | 0,80 | 63                  | 60                 |
| 7  | 400 | 50   | 650   | 11200          | 63              | 510            | 0,92 | 62                  | 60                 |
| 8  | 400 | 50   | 650   | 9200           | 78              | 554            | 0,93 | 65                  | 60                 |
| 9  | 400 | 50   | 525   | 12700          | 0               | 183            | 0,38 | 63                  | 60                 |
| 10 | 400 | 50   | 525   | 11350          | 20              | 225            | 0,35 | 59                  | 60                 |
| 11 | 400 | 50   | 525   | 9100           | 40              | 265            | 0,53 | 58                  | 60                 |
| 12 | 400 | 50   | 525   | 7400           | 51              | 292            | 0,57 | 61                  | 60                 |
| 13 | 400 | 50   | 400   | 9700           | 0               | 81             | 0,21 | 57                  | 60                 |
| 14 | 400 | 50   | 400   | 8700           | 11              | 97             | 0,24 | 53                  | 60                 |
| 15 | 400 | 50   | 400   | 7000           | 23              | 117            | 0,27 | 52                  | 60                 |
| 16 | 400 | 50   | 400   | 5700           | 29              | 128            | 0,28 | 55                  | 60                 |



# WAMAK AW 400 EVI HeavyDuty 2L4 - Split Einheit Variante: VOII-1200-2HIGH

## Anzahl von Einheiten

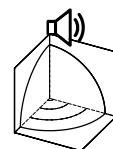
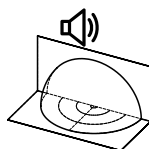
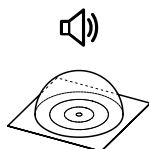
8



| Gehäuse Bezeichnung: VOII-1200-2HIGH |             |      | Verdampfer                          |                       |
|--------------------------------------|-------------|------|-------------------------------------|-----------------------|
| Artikel                              | WAVII12H    |      | Bauart                              | Cu-coil /Al-fin "     |
| Grundlegende Abmessungen             | Hohe [mm]   | 2450 | Anschlussdimension                  | 8 x (7/8" - 1.3/8") " |
|                                      | Breite [mm] | 1420 | Wärmeträger                         | Luft                  |
|                                      | Länge [mm]  | 710  | Volumenstrom - Luft [m3/h]          | 15073 ~ 120580        |
| Gewicht [kg]                         | 300         |      | Interne Druckdifferenz - Luft [kPa] | 8 x 0.061             |
| Gehäuse Farbe                        | Grau        |      | Temperaturdifferenz - Luft          | 7 K                   |
| Gehäuse IP Klasse                    | IP44        |      | Expansionsventil                    | EEV                   |
| Ventilator                           | 800 mm      |      |                                     |                       |
| Anzahl von Ventilatoren              | 2           |      | Ventilator Installation             | Horizontalachse       |
| Motor von Ventilator, Typ            | EC          |      | Ventilator Bauart                   | Axial                 |
| Ventilator Strom Nominal [A]         | 1.35        |      | Ventilator Einspeisung [V/Hz]       | 3~ 400/50             |
| Minimale Leistungsaufnahme [Watt]    | 81          |      | Maximale Leistungsaufnahme [Watt]   | 802                   |

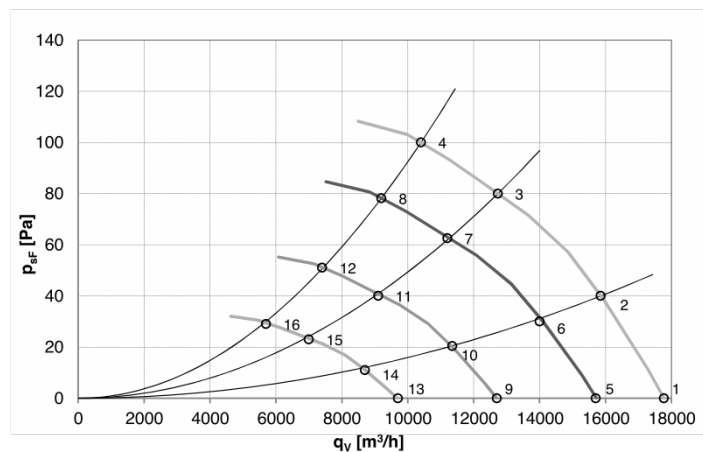
Schallleistungspegel L<sub>w</sub>

76.1 dB(A)

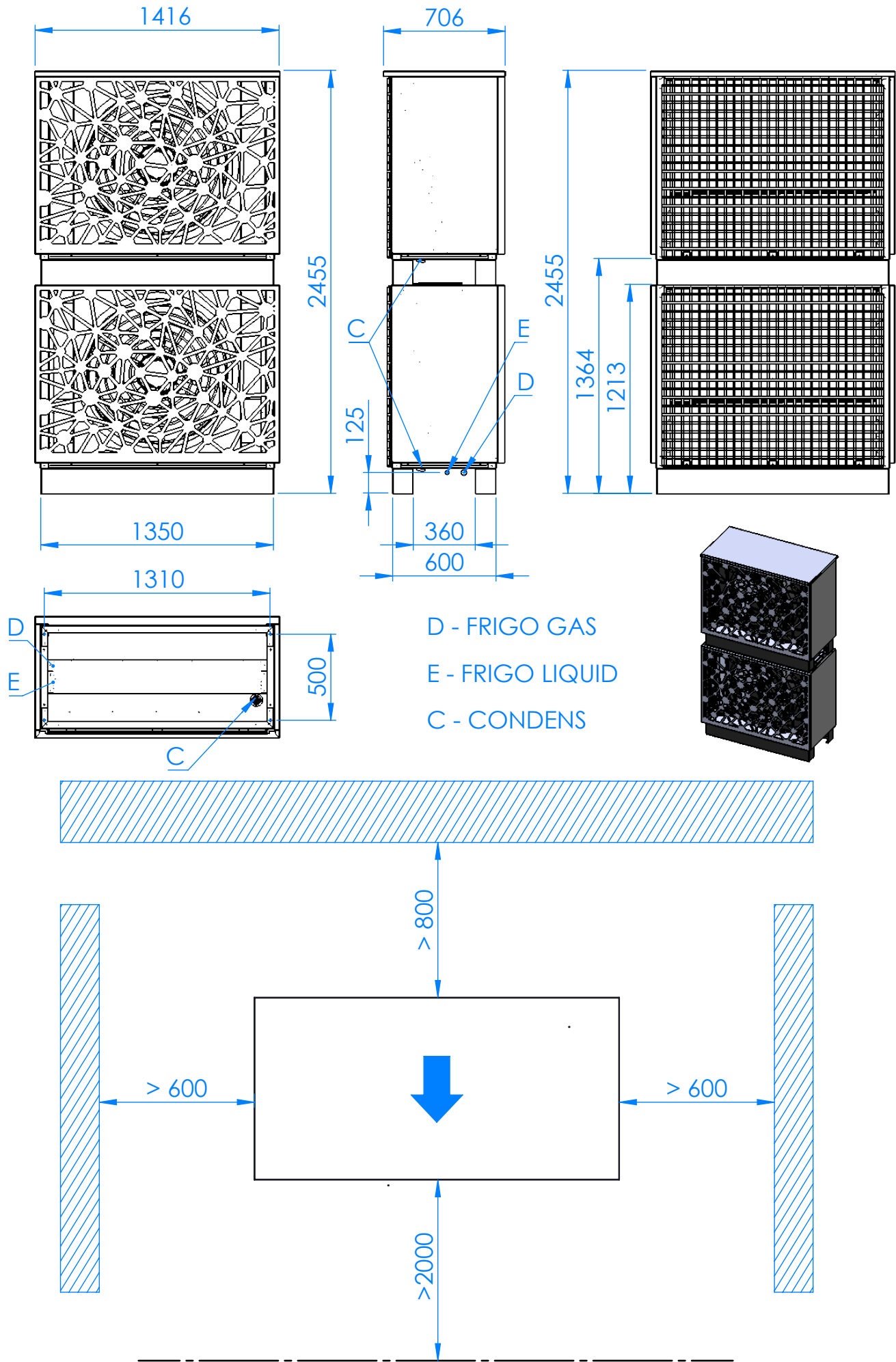


| Entfernung [m]                          | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   |
|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Schalldruckpegel L <sub>p</sub> [dB(A)] | 71.1 | 57.1 | 51.1 | 47.6 | 74.1 | 60.1 | 54.1 | 50.6 | 68.1 | 54.1 | 48.1 | 44.6 |

## EC Fan 800mm



|    | U   | f    | n     | q <sub>v</sub> | p <sub>sF</sub> | P <sub>e</sub> | I    | L <sub>WA out</sub> | T <sub>a max</sub> |
|----|-----|------|-------|----------------|-----------------|----------------|------|---------------------|--------------------|
|    | [V] | [Hz] | [RPM] | [m³/h]         | [Pa]            | [W]            | [A]  | [dB (A)]            | [°C]               |
| 1  | 400 | 50   | 735   | 17770          | 0               | 503            | 0,85 | 70                  | 60                 |
| 2  | 400 | 50   | 735   | 15850          | 40              | 612            | 1,02 | 66                  | 60                 |
| 3  | 400 | 50   | 735   | 12730          | 80              | 735            | 1,18 | 65                  | 60                 |
| 4  | 400 | 50   | 735   | 10400          | 100             | 802            | 1,36 | 68                  | 60                 |
| 5  | 400 | 50   | 650   | 15700          | 0               | 348            | 0,68 | 67                  | 60                 |
| 6  | 400 | 50   | 650   | 14000          | 30              | 421            | 0,80 | 63                  | 60                 |
| 7  | 400 | 50   | 650   | 11200          | 63              | 510            | 0,92 | 62                  | 60                 |
| 8  | 400 | 50   | 650   | 9200           | 78              | 554            | 0,93 | 65                  | 60                 |
| 9  | 400 | 50   | 525   | 12700          | 0               | 183            | 0,38 | 63                  | 60                 |
| 10 | 400 | 50   | 525   | 11350          | 20              | 225            | 0,35 | 59                  | 60                 |
| 11 | 400 | 50   | 525   | 9100           | 40              | 265            | 0,53 | 58                  | 60                 |
| 12 | 400 | 50   | 525   | 7400           | 51              | 292            | 0,57 | 61                  | 60                 |
| 13 | 400 | 50   | 400   | 9700           | 0               | 81             | 0,21 | 57                  | 60                 |
| 14 | 400 | 50   | 400   | 8700           | 11              | 97             | 0,24 | 53                  | 60                 |
| 15 | 400 | 50   | 400   | 7000           | 23              | 117            | 0,27 | 52                  | 60                 |
| 16 | 400 | 50   | 400   | 5700           | 29              | 128            | 0,28 | 55                  | 60                 |

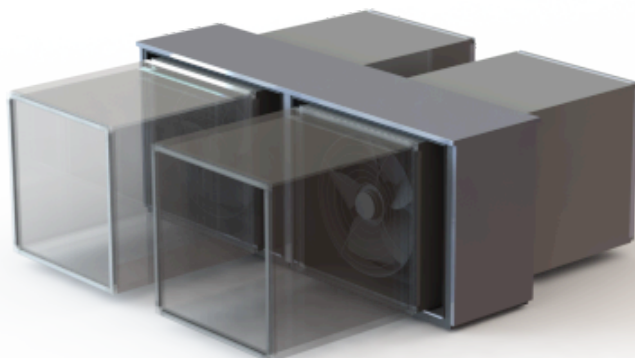




# WAMAK AW 400 EVI HeavyDuty 2L4 - Split Einheit Variante: VOII-1200-2LOW-DUCT

## Anzahl von Einheiten

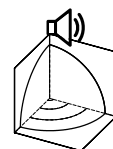
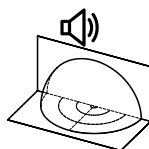
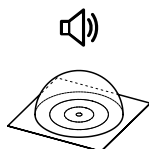
8



| Gehäuse Bezeichnung: VOII-1200-2LOW-DUCT |             |      | Verdampfer                          |                       |
|------------------------------------------|-------------|------|-------------------------------------|-----------------------|
| Artikel                                  | WAVID12L    |      | Bauart                              | Cu-coil /Al-fin "     |
| Grundlegende Abmessungen                 | Hohe [mm]   | 1240 | Anschlussdimension                  | 8 x (7/8" - 1.3/8") " |
|                                          | Breite [mm] | 2850 | Wärmeträger                         | Luft                  |
|                                          | Länge [mm]  | 710  | Volumenstrom - Luft [m3/h]          | 15073 ~ 120580        |
| Gewicht [kg]                             | 300         |      | Interne Druckdifferenz - Luft [kPa] | 8 x 0.061             |
| Gehäuse Farbe                            | Grau        |      | Temperaturdifferenz - Luft          | 7 K                   |
| Gehäuse IP Klasse                        | IP44        |      | Expansionsventil                    | EEV                   |
| Ventilator                               | 800 mm      |      |                                     |                       |
| Anzahl von Ventilatoren                  | 2           |      | Ventilator Installation             | Horizontalachse       |
| Motor von Ventilator, Typ                | EC          |      | Ventilator Bauart                   | Axial                 |
| Ventilator Strom Nominal [A]             | 1.35        |      | Ventilator Einspeisung [V/Hz]       | 3~ 400/50             |
| Minimale Leistungsaufnahme [Watt]        | 81          |      | Maximale Leistungsaufnahme [Watt]   | 802                   |

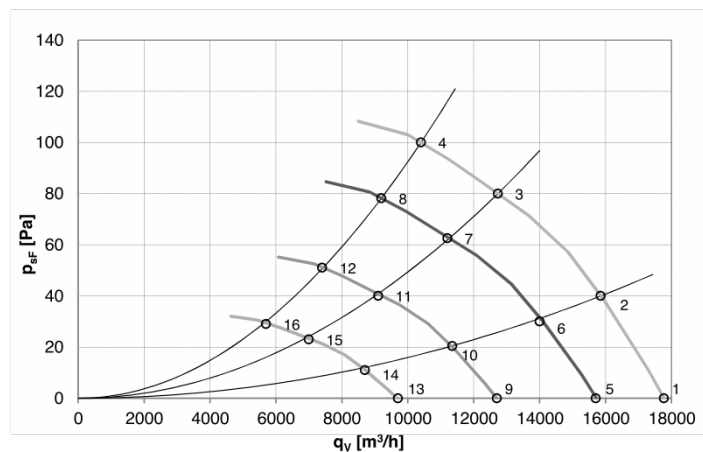
Schallleistungspegel L<sub>w</sub>

76.1 dB(A)



| Entfernung [m]                          | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   |
|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Schalldruckpegel L <sub>p</sub> [dB(A)] | 71.1 | 57.1 | 51.1 | 47.6 | 74.1 | 60.1 | 54.1 | 50.6 | 68.1 | 54.1 | 48.1 | 44.6 |

## EC Fan 800mm



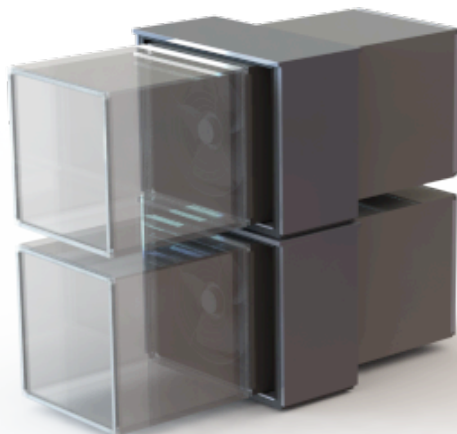
|    | U   | f    | n     | q <sub>v</sub> | p <sub>sF</sub> | P <sub>e</sub> | I    | L <sub>WA out</sub> | T <sub>a max</sub> |
|----|-----|------|-------|----------------|-----------------|----------------|------|---------------------|--------------------|
|    | [V] | [Hz] | [RPM] | [m³/h]         | [Pa]            | [W]            | [A]  | [dB (A)]            | [°C]               |
| 1  | 400 | 50   | 735   | 17770          | 0               | 503            | 0,85 | 70                  | 60                 |
| 2  | 400 | 50   | 735   | 15850          | 40              | 612            | 1,02 | 66                  | 60                 |
| 3  | 400 | 50   | 735   | 12730          | 80              | 735            | 1,18 | 65                  | 60                 |
| 4  | 400 | 50   | 735   | 10400          | 100             | 802            | 1,36 | 68                  | 60                 |
| 5  | 400 | 50   | 650   | 15700          | 0               | 348            | 0,68 | 67                  | 60                 |
| 6  | 400 | 50   | 650   | 14000          | 30              | 421            | 0,80 | 63                  | 60                 |
| 7  | 400 | 50   | 650   | 11200          | 63              | 510            | 0,92 | 62                  | 60                 |
| 8  | 400 | 50   | 650   | 9200           | 78              | 554            | 0,93 | 65                  | 60                 |
| 9  | 400 | 50   | 525   | 12700          | 0               | 183            | 0,38 | 63                  | 60                 |
| 10 | 400 | 50   | 525   | 11350          | 20              | 225            | 0,35 | 59                  | 60                 |
| 11 | 400 | 50   | 525   | 9100           | 40              | 265            | 0,53 | 58                  | 60                 |
| 12 | 400 | 50   | 525   | 7400           | 51              | 292            | 0,57 | 61                  | 60                 |
| 13 | 400 | 50   | 400   | 9700           | 0               | 81             | 0,21 | 57                  | 60                 |
| 14 | 400 | 50   | 400   | 8700           | 11              | 97             | 0,24 | 53                  | 60                 |
| 15 | 400 | 50   | 400   | 7000           | 23              | 117            | 0,27 | 52                  | 60                 |
| 16 | 400 | 50   | 400   | 5700           | 29              | 128            | 0,28 | 55                  | 60                 |



# WAMAK AW 400 EVI HeavyDuty 2L4 - Split Einheit Variante: VOII-1200-2HIGH-DUCT

## Anzahl von Einheiten

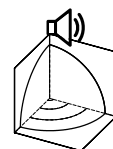
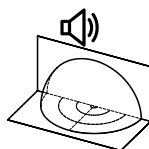
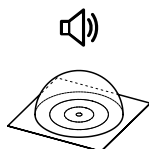
8



| Gehäuse Bezeichnung: VOII-1200-2HIGH-DUCT |             |      | Verdampfer                          |                       |
|-------------------------------------------|-------------|------|-------------------------------------|-----------------------|
| Artikel                                   | WAVID12H    |      | Bauart                              | Cu-coil /Al-fin "     |
| Grundlegende Abmessungen                  | Hohe [mm]   | 2450 | Anschlussdimension                  | 8 x (7/8" - 1.3/8") " |
|                                           | Breite [mm] | 1420 | Wärmeträger                         | Luft                  |
|                                           | Länge [mm]  | 710  | Volumenstrom - Luft [m3/h]          | 15073 ~ 120580        |
| Gewicht [kg]                              | 300         |      | Interne Druckdifferenz - Luft [kPa] | 8 x 0.061             |
| Gehäuse Farbe                             | Grau        |      | Temperaturdifferenz - Luft          | 7 K                   |
| Gehäuse IP Klasse                         | IP44        |      | Expansionsventil                    | EEV                   |
| Ventilator                                | 800 mm      |      |                                     |                       |
| Anzahl von Ventilatoren                   | 2           |      | Ventilator Installation             | Horizontalachse       |
| Motor von Ventilator, Typ                 | EC          |      | Ventilator Bauart                   | Axial                 |
| Ventilator Strom Nominal [A]              | 1.35        |      | Ventilator Einspeisung [V/Hz]       | 3~ 400/50             |
| Minimale Leistungsaufnahme [Watt]         | 81          |      | Maximale Leistungsaufnahme [Watt]   | 802                   |

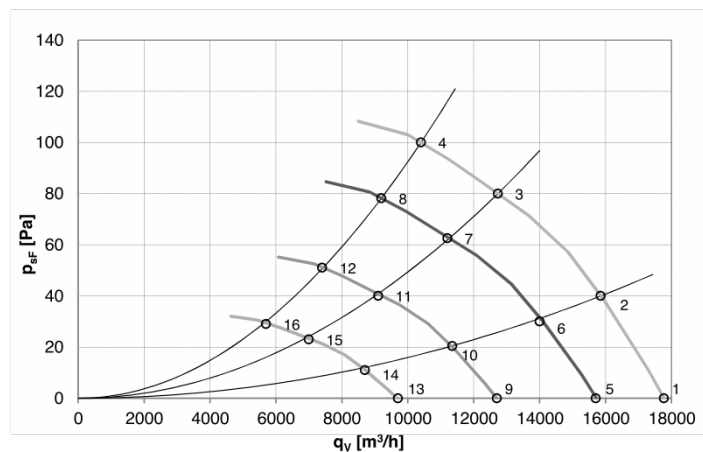
Schallleistungspegel L<sub>w</sub>

76.1 dB(A)



| Entfernung [m]                          | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   | 1    | 5    | 10   | 15   |
|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Schalldruckpegel L <sub>p</sub> [dB(A)] | 71.1 | 57.1 | 51.1 | 47.6 | 74.1 | 60.1 | 54.1 | 50.6 | 68.1 | 54.1 | 48.1 | 44.6 |

## EC Fan 800mm



|    | U   | f    | n     | q <sub>v</sub> | p <sub>sF</sub> | P <sub>e</sub> | I    | L <sub>WA out</sub> | T <sub>a max</sub> |
|----|-----|------|-------|----------------|-----------------|----------------|------|---------------------|--------------------|
|    | [V] | [Hz] | [RPM] | [m³/h]         | [Pa]            | [W]            | [A]  | [dB (A)]            | [°C]               |
| 1  | 400 | 50   | 735   | 17770          | 0               | 503            | 0,85 | 70                  | 60                 |
| 2  | 400 | 50   | 735   | 15850          | 40              | 612            | 1,02 | 66                  | 60                 |
| 3  | 400 | 50   | 735   | 12730          | 80              | 735            | 1,18 | 65                  | 60                 |
| 4  | 400 | 50   | 735   | 10400          | 100             | 802            | 1,36 | 68                  | 60                 |
| 5  | 400 | 50   | 650   | 15700          | 0               | 348            | 0,68 | 67                  | 60                 |
| 6  | 400 | 50   | 650   | 14000          | 30              | 421            | 0,80 | 63                  | 60                 |
| 7  | 400 | 50   | 650   | 11200          | 63              | 510            | 0,92 | 62                  | 60                 |
| 8  | 400 | 50   | 650   | 9200           | 78              | 554            | 0,93 | 65                  | 60                 |
| 9  | 400 | 50   | 525   | 12700          | 0               | 183            | 0,38 | 63                  | 60                 |
| 10 | 400 | 50   | 525   | 11350          | 20              | 225            | 0,35 | 59                  | 60                 |
| 11 | 400 | 50   | 525   | 9100           | 40              | 265            | 0,53 | 58                  | 60                 |
| 12 | 400 | 50   | 525   | 7400           | 51              | 292            | 0,57 | 61                  | 60                 |
| 13 | 400 | 50   | 400   | 9700           | 0               | 81             | 0,21 | 57                  | 60                 |
| 14 | 400 | 50   | 400   | 8700           | 11              | 97             | 0,24 | 53                  | 60                 |
| 15 | 400 | 50   | 400   | 7000           | 23              | 117            | 0,27 | 52                  | 60                 |
| 16 | 400 | 50   | 400   | 5700           | 29              | 128            | 0,28 | 55                  | 60                 |

