

TECHNICAL DATA SHEET



VHH

**WATER COOLED CHILLER
WITH SCROLL OR
RECIPROCATING
COMPRESSORS FOR
INDOOR INSTALLATION**



VHH Range 19 - 676 kW

VHH

Water cooled unit with scroll or reciprocating compressors for indoor installation



Scroll compressors (R410A)
Reciprocating compressors (R290 or HFO1234-ze)
Dry expansion evaporator



General Description

The units of the VHH series are assembled on a strong self-supporting metal screwed and welded structure, painted with epoxy powder with anti-rust coating for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant.

Prior to delivery every machine is submitted to a performance test, with intervention tests of all the safety systems and components installed.

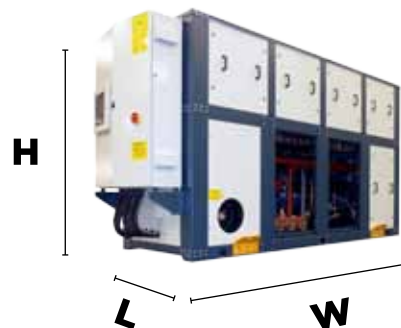
Typical units dimensions

Length: from 1.450 to 4.110 mm

Width: from 800 to 1.400 mm

Height: from 1.560 to 2.300 mm

Operating Weight: from 554 kg to 4.176 kg



Length from from 1.450 to 4.110 mm

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 1090 WT-01 | VHH 1105 WT-01 | VHH 1120 WT-01 | VHH 1140 WT-01 | VHH 1161 WT-01 | VHH 1184 WT-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 21.65 | 25.71 | 29.09 | 33.97 | 37.82 | 43.35 |
| Nominal power input | kW | 5.2 | 6.2 | 6.9 | 7.9 | 8.7 | 10.1 |
| E.E.R. | Coef. | 4.16 | 4.15 | 4.22 | 4.3 | 4.35 | 4.29 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.57 | 5.53 | 5.34 | 5.59 | 5.32 | 5.44 |
| Noise Pressure Level | dB(A) | 41 | 43 | 43 | 43 | 44 | 44 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 1 | 1 | 1 | 1 | 1 | 1 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 5.2 | 6.2 | 6.9 | 7.9 | 8.7 | 10.1 |
| Total running current | A | 10.5 | 13.2 | 13.9 | 15.6 | 16.3 | 20.1 |
| Total max current | A | 19 | 22 | 24 | 28 | 31 | 36 |
| Total starting current | A | 98 | 142 | 142 | 147 | 158 | 197 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| Shipping weight | kg | 540 | 550 | 550 | 550 | 550 | 550 |
| Operating weight | kg | 554 | 564 | 564 | 564 | 564 | 564 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1182 WT-01 | VHH 1195 WT-01 | VHH 1210 WT-01 | VHH 1212 WT-01 | VHH 1230 WT-01 | VHH 1242 WT-01 | VHH 1240 WT-01 | VHH 1260 WT-01 | VHH 1281 WT-01 | VHH 1282 WT-01 | VHH 1301 WT-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 43.3 | 47.36 | 50.74 | 51.41 | 55.16 | 58.18 | 58.13 | 62.6 | 66.9 | 67.02 | 71.33 |
| 10.5 | 11.5 | 12.1 | 12.4 | 13.1 | 13.7 | 13.3 | 14.8 | 15.6 | 15.8 | 16.6 |
| 4.12 | 4.12 | 4.19 | 4.15 | 4.21 | 4.25 | 4.37 | 4.23 | 4.29 | 4.24 | 4.3 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.33 | 5.57 | 5.29 | 5.3 | 5.47 | 5.23 | 5.16 | 5.34 | 5.34 | 5.38 | 5.17 |
| 44 | 46 | 46 | 46 | 46 | 46 | 52 | 46 | 47 | 46 | 47 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 10.5 | 11.5 | 12.1 | 12.4 | 13.1 | 13.7 | 13.3 | 14.8 | 15.6 | 15.8 | 16.6 |
| 21.1 | 23.8 | 24.4 | 26.4 | 26.2 | 27.7 | 24.2 | 29.5 | 30.2 | 31.2 | 31.9 |
| 38 | 41 | 43 | 44 | 47 | 48 | 49 | 52 | 55 | 56 | 59 |
| 70.1 | 94.8 | 95.4 | 97.4 | 99.7 | 98.7 | 215 | 103 | 109.2 | 104.7 | 110.9 |
| | | | | | | | | | | |
| 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| 610 | 620 | 620 | 630 | 620 | 630 | 610 | 630 | 640 | 650 | 650 |
| 624 | 634 | 634 | 646 | 636 | 646 | 626 | 646 | 657 | 668 | 668 |

VHH for Water Tower connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 1304 WT-01 | VHH 1322 WT-01 | VHH 1324 WT-01 | VHH 1300 WT-01 | VHH 1345 WT-01 | VHH 1360 WT-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 72.44 | 75.63 | 76.86 | 73.23 | 81.16 | 85.95 |
| Nominal power input | kW | 17 | 17.4 | 18 | 17 | 18.8 | 20 |
| E.E.R. | Coef. | 4.26 | 4.35 | 4.27 | 4.31 | 4.32 | 4.3 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.23 | 5.61 | 5.34 | 5.28 | 5.42 | 5.15 |
| Noise Pressure Level | dB(A) | 47 | 47 | 47 | 52 | 47 | 53 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 2 | 2 | 2 | 1 | 2 | 2 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 17 | 17.4 | 18 | 17 | 18.8 | 20 |
| Total running current | A | 34 | 32.6 | 35.7 | 30.5 | 36.4 | 37.6 |
| Total max current | A | 60 | 62 | 64 | 58 | 67 | 68 |
| Total starting current | A | 132.5 | 111.6 | 134.2 | 260 | 134.9 | 122.6 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| Shipping weight | kg | 650 | 650 | 650 | 680 | 660 | 780 |
| Operating weight | kg | 668 | 668 | 668 | 698 | 679 | 803 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1368 WT-01 | VHH 1380 WT-01 | VHH 1420 WT-01 | VHH 1485 WT-01 | VHH 1480 WT-01 | VHH 1482 WT-01 | VHH 1550 WT-01 | VHH 1540 WT-01 | VHH 1600 WT-01 | VHH 1620 WT-01 | VHH 1680 WT-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 86.7 | 87.57 | 101.1 | 112.66 | 116.2 | 116.26 | 128.92 | 131.35 | 146.45 | 145.7 | 160.8 |
| 20.2 | 20.6 | 23.3 | 26.2 | 27 | 26.5 | 30 | 30.3 | 34 | 33.8 | 37.6 |
| 4.29 | 4.25 | 4.34 | 4.3 | 4.3 | 4.39 | 4.3 | 4.33 | 4.31 | 4.31 | 4.28 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.44 | 5.14 | 5.22 | 5.56 | 5.39 | 5.2 | 5.42 | 5.13 | 5.46 | 5.5 | 5.6 |
| 49 | 53 | 55 | 59 | 55 | 55 | 55 | 55 | 56 | 56 | 56 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 20.2 | 20.6 | 23.3 | 26.2 | 27 | 26.5 | 30 | 30.3 | 34 | 33.8 | 37.6 |
| 40.2 | 38.5 | 43 | 46.9 | 49.3 | 48.4 | 56.4 | 54.7 | 61 | 62.7 | 69 |
| 72 | 72 | 83 | 89 | 92 | 98 | 102 | 107 | 116 | 121 | 130 |
| 138.7 | 320 | 150.5 | 413 | 179.3 | 155.9 | 169.5 | 184.7 | 191 | 222.7 | 229 |
| | | | | | | | | | | |
| 1450 | 1450 | 1650 | 1650 | 1650 | 1650 | 2510 | 2110 | 2110 | 2110 | 2110 |
| 800 | 800 | 800 | 800 | 800 | 800 | 1000 | 800 | 800 | 800 | 800 |
| 1560 | 1560 | 1800 | 1800 | 1800 | 1800 | 2000 | 1900 | 1900 | 1900 | 1900 |
| 680 | 710 | 860 | 800 | 910 | 860 | 1330 | 1020 | 1100 | 1050 | 1120 |
| 703 | 735 | 885 | 825 | 935 | 885 | 1357 | 1047 | 1131 | 1081 | 1153 |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 1720 WT-01 | VHH 1760 WT-01 | VHH 1865 WT-01 | VHH 1970 WT-01 | VHH 1900 WT-01 | VHH 1114 WT-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 174.39 | 175.14 | 200.23 | 225.32 | 219.68 | 262.71 |
| Nominal power input | kW | 39.8 | 41.1 | 46.7 | 52.3 | 51 | 61.7 |
| E.E.R. | Coef. | 4.38 | 4.26 | 4.29 | 4.31 | 4.31 | 4.26 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.24 | 5.58 | 5.21 | 5.4 | 5.57 | 5.35 |
| Noise Pressure Level | dB(A) | 57 | 57 | 59 | 59 | 57 | 58 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 3 | 2 | 2 | 2 | 3 | 3 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 39.8 | 41.1 | 46.7 | 52.3 | 51 | 61.7 |
| Total running current | A | 72.6 | 77 | 85.4 | 93.8 | 91.5 | 115.4 |
| Total max current | A | 147 | 144 | 161 | 178 | 174 | 216 |
| Total starting current | A | 216.9 | 237 | 291.9 | 300.3 | 269.7 | 337.5 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2510 | 2110 | 2110 | 2110 | 2510 | 2510 |
| Width | mm | 1000 | 800 | 800 | 800 | 1000 | 1000 |
| Height | mm | 2000 | 1900 | 1900 | 1900 | 2000 | 2000 |
| Shipping weight | kg | 1370 | 1120 | 1240 | 1290 | 1660 | 1690 |
| Operating weight | kg | 1403 | 1153 | 1286 | 1342 | 1714 | 1744 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1145 WT-01 | VHH 2182 WT-01 | VHH 2195 WT-01 | VHH 2210 WT-01 | VHH 2212 WT-01 | VHH 2230 WT-01 | VHH 2242 WT-01 | VHH 2260 WT-01 | VHH 2281 WT-01 | VHH 2282 WT-01 | VHH 2301 WT-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 337.98 | 86.6 | 94.72 | 101.48 | 102.82 | 110.32 | 116.36 | 125.2 | 133.8 | 134.04 | 142.66 |
| 78.5 | 21 | 23 | 24.2 | 24.8 | 26.2 | 27.4 | 29.6 | 31.2 | 31.6 | 33.2 |
| 4.31 | 4.12 | 4.12 | 4.19 | 4.15 | 4.21 | 4.25 | 4.23 | 4.29 | 4.24 | 4.3 |
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5.38 | 5.59 | 5.7 | 5.26 | 5.49 | 5.48 | 5.55 | 5.28 | 5.37 | 5.46 | 5.26 |
| 64 | 48 | 50 | 50 | 50 | 50 | 50 | 50 | 51 | 50 | 51 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 78.5 | 21 | 23 | 24.2 | 24.8 | 26.2 | 27.4 | 29.6 | 31.2 | 31.6 | 33.2 |
| 140.7 | 42.2 | 47.6 | 48.8 | 52.8 | 52.4 | 55.4 | 59 | 60.4 | 62.4 | 63.8 |
| 267 | 76 | 82 | 86 | 88 | 94 | 96 | 104 | 110 | 112 | 118 |
| 419.1 | 161.7 | 190.2 | 194.1 | 207.1 | 207.1 | 215.6 | 228.5 | 235.8 | 239.6 | 246.9 |
| | | | | | | | | | | |
| 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 1780 | 1320 | 1330 | 1330 | 1340 | 1340 | 1340 | 1370 | 1370 | 1370 | 1380 |
| 1842 | 1343 | 1353 | 1353 | 1363 | 1363 | 1363 | 1396 | 1396 | 1396 | 1406 |

VHH for Water Tower connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 2304 WT-01 | VHH 2322 WT-01 | VHH 2324 WT-01 | VHH 2345 WT-01 | VHH 2360 WT-01 | VHH 2368 WT-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 144.88 | 151.26 | 153.72 | 162.32 | 171.9 | 173.4 |
| Nominal power input | kW | 34 | 34.8 | 36 | 37.6 | 40 | 40.4 |
| E.E.R. | Coef. | 4.26 | 4.35 | 4.27 | 4.32 | 4.3 | 4.29 |
| Energy class | | 2 | 2 | 2 | 2 | 2 | 2 |
| E.S.E.E.R. | Coef. | 5.69 | 5.5 | 5.58 | 5.38 | 5.72 | 5.27 |
| Noise Pressure Level | dB(A) | 51 | 51 | 51 | 51 | 57 | 53 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 4 | 4 | 4 | 4 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 34 | 34.8 | 36 | 37.6 | 40 | 40.4 |
| Total running current | A | 68 | 65.2 | 71.4 | 72.8 | 75.2 | 80.4 |
| Total max current | A | 120 | 124 | 128 | 134 | 136 | 144 |
| Total starting current | A | 270.3 | 251.4 | 281.3 | 285.9 | 286.9 | 310.6 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 |
| Width | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Height | mm | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Shipping weight | kg | 1380 | 1380 | 1380 | 1420 | 1620 | 1430 |
| Operating weight | kg | 1406 | 1406 | 1406 | 1452 | 1652 | 1462 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 2420 WT-01 | VHH 2480 WT-01 | VHH 2482 WT-01 | VHH 2550 WT-01 | VHH 2540 WT-01 | VHH 2600 WT-01 | VHH 2620 WT-01 | VHH 2680 WT-01 | VHH 2720 WT-01 | VHH 2760 WT-01 | VHH 2865 WT-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 202.2 | 232.4 | 232.52 | 257.84 | 262.7 | 292.9 | 291.4 | 321.6 | 348.78 | 350.28 | 400.46 |
| 46.6 | 54 | 53 | 60 | 60.6 | 68 | 67.6 | 75.2 | 79.6 | 82.2 | 93.4 |
| 4.34 | 4.3 | 4.39 | 4.3 | 4.33 | 4.31 | 4.31 | 4.28 | 4.38 | 4.26 | 4.29 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5.65 | 5.67 | 5.72 | 5.75 | 5.65 | 5.44 | 5.73 | 5.35 | 5.69 | 5.46 | 5.56 |
| 59 | 59 | 59 | 59 | 59 | 60 | 60 | 60 | 61 | 61 | 63 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 6 | 4 | 4 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 46.6 | 54 | 53 | 60 | 60.6 | 68 | 67.6 | 75.2 | 79.6 | 82.2 | 93.4 |
| 86 | 98.6 | 96.8 | 112.8 | 109.4 | 122 | 125.4 | 138 | 145.2 | 154 | 170.8 |
| 166 | 184 | 196 | 204 | 214 | 232 | 242 | 260 | 294 | 288 | 322 |
| 333.3 | 385.5 | 368.4 | 611.1 | 420.6 | 461.5 | 487.6 | 528.5 | 786 | 580.5 | 658.4 |
| | | | | | | | | | | |
| 3010 | 3010 | 3010 | 4110 | 3010 | 3010 | 3010 | 3010 | 4110 | 3010 | 3010 |
| 1200 | 1200 | 1200 | 1400 | 1200 | 1200 | 1200 | 1200 | 1400 | 1200 | 1200 |
| 2200 | 2200 | 2200 | 2300 | 2200 | 2200 | 2200 | 2200 | 2300 | 2200 | 2200 |
| 2010 | 2110 | 2010 | 2940 | 2190 | 2330 | 2240 | 2360 | 3070 | 2370 | 2430 |
| 2045 | 2145 | 2045 | 2975 | 2240 | 2386 | 2296 | 2420 | 3130 | 2430 | 2494 |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 2900 WT-01 | VHH 2970 WT-01 | VHH 2114 WT-01 | VHH 2145 WT-01 | | |
|--|---------|-------------------|-------------------|-------------------|-------------------|--|--|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | | |
| Total cooling capacity | kW | 439.36 | 450.64 | 525.42 | 675.96 | | |
| Nominal power input | kW | 102 | 104.6 | 123.4 | 157 | | |
| E.E.R. | Coef. | 4.31 | 4.31 | 4.26 | 4.31 | | |
| Energy class | | 2 | 2 | 2 | 2 | | |
| E.S.E.E.R. | Coef. | 5.57 | 5.43 | 5.74 | 5.53 | | |
| Noise Pressure Level | dB(A) | 61 | 63 | 62 | 68 | | |
| Distance | m | 10 | 10 | 10 | 10 | | |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | | |
| Compressors number | n° | 6 | 4 | 6 | 6 | | |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | | |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | | |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | | |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | | |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | | |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | | |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | | |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | | |
| Total power input | kW | 102 | 104.6 | 123.4 | 157 | | |
| Total running current | A | 183 | 187.6 | 230.8 | 281.4 | | |
| Total max current | A | 348 | 356 | 432 | 534 | | |
| Total starting current | A | 988.8 | 713 | 1245.8 | 1522.7 | | |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 4110 | 3010 | 4110 | 4110 | | |
| Width | mm | 1400 | 1200 | 1400 | 1400 | | |
| Height | mm | 2300 | 2200 | 2300 | 2300 | | |
| Shipping weight | kg | 3400 | 2470 | 3640 | 3770 | | |
| Operating weight | kg | 3464 | 2534 | 3739 | 3873 | | |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1090 DC-01 | VHH 1105 DC-01 | VHH 1120 DC-01 | VHH 1140 DC-01 | VHH 1161 DC-01 | VHH 1184 DC-01 | VHH 1182 DC-01 | VHH 1195 DC-01 | VHH 1210 DC-01 | VHH 1212 DC-01 | VHH 1230 DC-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 19 | 22.87 | 25.54 | 30.22 | 33.22 | 38.25 | 38 | 41.87 | 44.54 | 45.73 | 48.64 |
| 6.4 | 7.5 | 8.4 | 9.6 | 10.8 | 12.2 | 12.7 | 13.9 | 14.8 | 15 | 16 |
| 2.97 | 3.05 | 3.04 | 3.15 | 3.08 | 3.14 | 2.99 | 3.01 | 3.01 | 3.05 | 3.04 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.59 | 5.47 | 5.35 | 5.34 | 5.4 | 5.19 | 5.14 | 5.4 | 5.5 | 5.59 | 5.17 |
| 41 | 43 | 43 | 43 | 44 | 44 | 44 | 46 | 46 | 46 | 46 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 6.4 | 7.5 | 8.4 | 9.6 | 10.8 | 12.2 | 12.7 | 13.9 | 14.8 | 15 | 16 |
| 11.9 | 14.7 | 15.6 | 17.7 | 18.9 | 22.6 | 23.8 | 26.5 | 27.5 | 29.3 | 29.6 |
| 19 | 22 | 24 | 28 | 31 | 36 | 38 | 41 | 43 | 44 | 47 |
| 98 | 142 | 142 | 147 | 158 | 197 | 72.8 | 97.5 | 98.5 | 100.3 | 103.1 |
| | | | | | | | | | | |
| 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| 540 | 550 | 550 | 550 | 550 | 550 | 610 | 620 | 620 | 630 | 620 |
| 554 | 564 | 564 | 564 | 564 | 564 | 624 | 634 | 634 | 646 | 636 |

VHH for Dry Cooler connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 1242 DC-01 | VHH 1240 DC-01 | VHH 1260 DC-01 | VHH 1281 DC-01 | VHH 1282 DC-01 | VHH 1301 DC-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 51.07 | 51.17 | 55.17 | 58.76 | 59.27 | 62.86 |
| Nominal power input | kW | 16.8 | 16.4 | 18 | 19.2 | 19.3 | 20.4 |
| E.E.R. | Coef. | 3.04 | 3.12 | 3.07 | 3.06 | 3.07 | 3.08 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.59 | 5.13 | 5.26 | 5.14 | 5.55 | 5.39 |
| Noise Pressure Level | dB(A) | 46 | 52 | 46 | 47 | 46 | 47 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 2 | 1 | 2 | 2 | 2 | 2 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 16.8 | 16.4 | 18 | 19.2 | 19.3 | 20.4 |
| Total running current | A | 31.2 | 28.2 | 33.3 | 34.5 | 35.4 | 36.6 |
| Total max current | A | 48 | 49 | 52 | 55 | 56 | 59 |
| Total starting current | A | 102.2 | 215 | 106.8 | 113.5 | 108.9 | 115.6 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 |
| Shipping weight | kg | 630 | 610 | 630 | 640 | 650 | 650 |
| Operating weight | kg | 646 | 626 | 646 | 657 | 668 | 668 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1304 DC-01 | VHH 1322 DC-01 | VHH 1324 DC-01 | VHH 1300 DC-01 | VHH 1345 DC-01 | VHH 1360 DC-01 | VHH 1368 DC-01 | VHH 1380 DC-01 | VHH 1420 DC-01 | VHH 1485 DC-01 | VHH 1480 DC-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 63.79 | 66.45 | 67.88 | 64.36 | 71.47 | 75.71 | 76.5 | 77.17 | 89.03 | 99.5 | 102.21 |
| 20.6 | 21.5 | 21.8 | 20.7 | 22.9 | 24.7 | 24.4 | 25.1 | 28.8 | 31.9 | 33 |
| 3.1 | 3.09 | 3.11 | 3.11 | 3.12 | 3.07 | 3.14 | 3.07 | 3.09 | 3.12 | 3.1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.18 | 5.21 | 5.54 | 5.45 | 5.36 | 5.25 | 5.46 | 5.24 | 5.29 | 5.4 | 5.61 |
| 47 | 47 | 47 | 52 | 47 | 53 | 49 | 53 | 55 | 59 | 55 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 20.6 | 21.5 | 21.8 | 20.7 | 22.9 | 24.7 | 24.4 | 25.1 | 28.8 | 31.9 | 33 |
| 38.2 | 37.7 | 40.3 | 35.3 | 41.4 | 43.4 | 45.1 | 44.2 | 49.9 | 54.7 | 57 |
| 60 | 62 | 64 | 58 | 67 | 68 | 72 | 72 | 83 | 89 | 92 |
| 136.7 | 116.7 | 138.8 | 260 | 139.9 | 128.4 | 143.6 | 320 | 157.4 | 413 | 187 |
| | | | | | | | | | | |
| 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1650 | 1650 | 1650 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1560 | 1800 | 1800 | 1800 |
| 650 | 650 | 650 | 680 | 660 | 780 | 680 | 710 | 860 | 800 | 910 |
| 668 | 668 | 668 | 698 | 679 | 803 | 703 | 735 | 885 | 825 | 935 |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 1482 DC-01 | VHH 1550 DC-01 | VHH 1540 DC-01 | VHH 1600 DC-01 | VHH 1620 DC-01 | VHH 1680 DC-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 102.34 | 113.56 | 115.53 | 128.71 | 128.34 | 141.52 |
| Nominal power input | kW | 32.8 | 37.1 | 37.1 | 41.3 | 41.5 | 45.8 |
| E.E.R. | Coef. | 3.12 | 3.06 | 3.11 | 3.12 | 3.09 | 3.09 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.57 | 5.51 | 5.48 | 5.45 | 5.34 | 5.23 |
| Noise Pressure Level | dB(A) | 55 | 55 | 55 | 56 | 56 | 56 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 2 | 3 | 2 | 2 | 2 | 2 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 32.8 | 37.1 | 37.1 | 41.3 | 41.5 | 45.8 |
| Total running current | A | 56.3 | 65.1 | 63.5 | 70.6 | 72.3 | 79.5 |
| Total max current | A | 98 | 102 | 107 | 116 | 121 | 130 |
| Total starting current | A | 163.8 | 186.9 | 193.5 | 200.6 | 232.3 | 239.5 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1650 | 2510 | 2110 | 2110 | 2110 | 2110 |
| Width | mm | 800 | 1000 | 800 | 800 | 800 | 800 |
| Height | mm | 1800 | 2000 | 1900 | 1900 | 1900 | 1900 |
| Shipping weight | kg | 860 | 1330 | 1020 | 1100 | 1050 | 1120 |
| Operating weight | kg | 885 | 1357 | 1047 | 1131 | 1081 | 1153 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1720 DC-01 | VHH 1760 DC-01 | VHH 1865 DC-01 | VHH 1970 DC-01 | VHH 1900 DC-01 | VHH 1114 DC-01 | VHH 1145 DC-01 | VHH 2182 DC-01 | VHH 2195 DC-01 | VHH 2210 DC-01 | VHH 2212 DC-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 153.52 | 154.33 | 176.66 | 198.99 | 193.07 | 231.5 | 298.49 | 76 | 83.74 | 89.08 | 91.46 |
| 49.3 | 50.2 | 57 | 63.7 | 62 | 75.3 | 95.6 | 25.4 | 27.8 | 29.6 | 30 |
| 3.11 | 3.07 | 3.1 | 3.12 | 3.11 | 3.07 | 3.12 | 2.99 | 3.01 | 3.01 | 3.05 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 5.4 | 5.61 | 5.24 | 5.33 | 5.59 | 5.37 | 5.47 | 5.31 | 5.63 | 5.56 | 5.53 |
| 57 | 57 | 59 | 59 | 57 | 58 | 64 | 48 | 50 | 50 | 50 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 3 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 45 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 49.3 | 50.2 | 57 | 63.7 | 62 | 75.3 | 95.6 | 25.4 | 27.8 | 29.6 | 30 |
| 84.5 | 88.3 | 98.8 | 109.3 | 105.9 | 132.5 | 164 | 47.6 | 53 | 55 | 58.6 |
| 147 | 144 | 161 | 178 | 174 | 216 | 267 | 76 | 82 | 86 | 88 |
| 240.7 | 248.3 | 305.3 | 315.8 | 298.5 | 371.7 | 465.7 | 179.2 | 207.8 | 214.3 | 226 |
| | | | | | | | | | | |
| 2510 | 2110 | 2110 | 2110 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 |
| 1000 | 800 | 800 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 2000 | 1900 | 1900 | 1900 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 1370 | 1120 | 1240 | 1290 | 1660 | 1690 | 1780 | 1320 | 1330 | 1330 | 1340 |
| 1403 | 1153 | 1286 | 1342 | 1714 | 1744 | 1842 | 1343 | 1353 | 1353 | 1363 |

VHH for Dry Cooler connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 2230 DC-01 | VHH 2242 DC-01 | VHH 2260 DC-01 | VHH 2281 DC-01 | VHH 2282 DC-01 | VHH 2301 DC-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 97.28 | 102.14 | 110.34 | 117.52 | 118.54 | 125.72 |
| Nominal power input | kW | 32 | 33.6 | 36 | 38.4 | 38.6 | 40.8 |
| E.E.R. | Coef. | 3.04 | 3.04 | 3.07 | 3.06 | 3.07 | 3.08 |
| Energy class | | 2 | 2 | 2 | 2 | 2 | 2 |
| E.S.E.E.R. | Coef. | 5.73 | 5.41 | 5.61 | 5.5 | 5.39 | 5.61 |
| Noise Pressure Level | dB(A) | 50 | 50 | 50 | 51 | 50 | 51 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 4 | 4 | 4 | 4 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 32 | 33.6 | 36 | 38.4 | 38.6 | 40.8 |
| Total running current | A | 59.2 | 62.4 | 66.6 | 69 | 70.8 | 73.2 |
| Total max current | A | 94 | 96 | 104 | 110 | 112 | 118 |
| Total starting current | A | 229.2 | 238.3 | 253.2 | 263.8 | 266.9 | 277.4 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2510 | 2510 | 2510 | 2510 | 2510 | 2510 |
| Width | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Height | mm | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Shipping weight | kg | 1340 | 1340 | 1370 | 1370 | 1370 | 1380 |
| Operating weight | kg | 1363 | 1363 | 1396 | 1396 | 1396 | 1406 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 2304 DC-01 | VHH 2322 DC-01 | VHH 2324 DC-01 | VHH 2345 DC-01 | VHH 2360 DC-01 | VHH 2368 DC-01 | VHH 2420 DC-01 | VHH 2480 DC-01 | VHH 2482 DC-01 | VHH 2550 DC-01 | VHH 2540 DC-01 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| 127.58 | 132.9 | 135.76 | 142.94 | 151.42 | 153 | 178.06 | 204.42 | 204.68 | 227.12 | 231.06 |
| 41.2 | 43 | 43.6 | 45.8 | 49.4 | 48.8 | 57.6 | 66 | 65.6 | 74.2 | 74.2 |
| 3.1 | 3.09 | 3.11 | 3.12 | 3.07 | 3.14 | 3.09 | 3.1 | 3.12 | 3.06 | 3.11 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5.32 | 5.37 | 5.42 | 5.44 | 5.5 | 5.41 | 5.58 | 5.6 | 5.71 | 5.7 | 5.69 |
| 51 | 51 | 51 | 51 | 57 | 53 | 59 | 59 | 59 | 59 | 59 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 4 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 41.2 | 43 | 43.6 | 45.8 | 49.4 | 48.8 | 57.6 | 66 | 65.6 | 74.2 | 74.2 |
| 76.4 | 75.4 | 80.6 | 82.8 | 86.8 | 90.2 | 99.8 | 114 | 112.6 | 130.2 | 127 |
| 120 | 124 | 128 | 134 | 136 | 144 | 166 | 184 | 196 | 204 | 214 |
| 297.6 | 284.6 | 311.2 | 318.4 | 324.6 | 342.4 | 378.1 | 435.5 | 419.7 | 701 | 477.8 |
| | | | | | | | | | | |
| 2510 | 2510 | 2510 | 2510 | 2510 | 2510 | 3010 | 3010 | 3010 | 4110 | 3010 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1200 | 1200 | 1200 | 1400 | 1200 |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2200 | 2200 | 2200 | 2300 | 2200 |
| 1380 | 1380 | 1380 | 1420 | 1620 | 1430 | 2010 | 2110 | 2010 | 2940 | 2190 |
| 1406 | 1406 | 1406 | 1452 | 1652 | 1462 | 2045 | 2145 | 2045 | 2975 | 2240 |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Energymiser | | VHH 2600 DC-01 | VHH 2620 DC-01 | VHH 2680 DC-01 | VHH 2720 DC-01 | VHH 2760 DC-01 | VHH 2865 DC-01 |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Total cooling capacity | kW | 257.42 | 256.68 | 283.04 | 307.04 | 308.66 | 353.32 |
| Nominal power input | kW | 82.6 | 83 | 91.6 | 98.6 | 100.4 | 114 |
| E.E.R. | Coef. | 3.12 | 3.09 | 3.09 | 3.11 | 3.07 | 3.1 |
| Energy class | | 2 | 2 | 2 | 2 | 2 | 2 |
| E.S.E.E.R. | Coef. | 5.65 | 5.65 | 5.66 | 5.43 | 5.42 | 5.52 |
| Noise Pressure Level | dB(A) | 60 | 60 | 60 | 61 | 61 | 63 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressors number | n° | 4 | 4 | 4 | 6 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 82.6 | 83 | 91.6 | 98.6 | 100.4 | 114 |
| Total running current | A | 141.2 | 144.6 | 159 | 169 | 176.6 | 197.6 |
| Total max current | A | 232 | 242 | 260 | 294 | 288 | 322 |
| Total starting current | A | 523.9 | 550 | 596.8 | 909 | 654 | 745.5 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 3010 | 3010 | 3010 | 4110 | 3010 | 3010 |
| Width | mm | 1200 | 1200 | 1200 | 1400 | 1200 | 1200 |
| Height | mm | 2200 | 2200 | 2200 | 2300 | 2200 | 2200 |
| Shipping weight | kg | 2330 | 2240 | 2360 | 3070 | 2370 | 2430 |
| Operating weight | kg | 2386 | 2296 | 2420 | 3130 | 2430 | 2494 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

R410A

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 2900 DC-01 | VHH 2970 DC-01 | VHH 2114 DC-01 | VHH 2145 DC-01 | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| R410A | R410A | R410A | R410A | | | | | | | |
| 386.14 | 397.98 | 463 | 596.98 | | | | | | | |
| 124 | 127.4 | 150.6 | 191.2 | | | | | | | |
| 3.11 | 3.12 | 3.07 | 3.12 | | | | | | | |
| 2 | 2 | 2 | 2 | | | | | | | |
| 5.3 | 5.37 | 5.71 | 5.32 | | | | | | | |
| 61 | 63 | 62 | 68 | | | | | | | |
| 10 | 10 | 10 | 10 | | | | | | | |
| | | | | | | | | | | |
| Scroll | Scroll | Scroll | Scroll | | | | | | | |
| 6 | 4 | 6 | 6 | | | | | | | |
| 12 | 12 | 12 | 12 | | | | | | | |
| 6 | 6 | 6 | 6 | | | | | | | |
| 29 | 39 | 39 | 39 | | | | | | | |
| 35 | 45 | 45 | 45 | | | | | | | |
| BPHE | BPHE | BPHE | BPHE | | | | | | | |
| BPHE | BPHE | BPHE | BPHE | | | | | | | |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | | | | | | | |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | | | | | | | |
| 124 | 127.4 | 150.6 | 191.2 | | | | | | | |
| 211.8 | 218.6 | 265 | 328 | | | | | | | |
| 348 | 356 | 432 | 534 | | | | | | | |
| 1137.6 | 813.7 | 1422.5 | 1763.5 | | | | | | | |
| | | | | | | | | | | |
| 4110 | 3010 | 4110 | 4110 | | | | | | | |
| 1400 | 1200 | 1400 | 1400 | | | | | | | |
| 2300 | 2200 | 2300 | 2300 | | | | | | | |
| 3400 | 2470 | 3640 | 3770 | | | | | | | |
| 3464 | 2534 | 3739 | 3873 | | | | | | | |

VHH for Water Tower connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 107 WT-290 | VHH 1S7 WT-290 | VHH 1S12 WT-290 | VHH 1S15 WT-290 | VHH 1S20 WT-290 | VHH 1V20 WT-290 |
|--|---------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 22.16 | 26.49 | 32.18 | 39.05 | 45.16 | 46.89 |
| Nominal power input | kW | 5.4 | 5.9 | 7.6 | 9.3 | 10.5 | 11 |
| E.E.R. | Coef. | 4.1 | 4.49 | 4.23 | 4.2 | 4.3 | 4.26 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.5 | 5.14 | 5.31 | 5.59 | 5.34 | 5.49 |
| Noise Pressure Level | dB(A) | 41 | 44 | 45 | 45 | 47 | 48 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 1 | 1 | 1 | 1 | 1 | 1 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 5.4 | 5.9 | 7.6 | 9.3 | 10.5 | 11 |
| Total running current | A | 10.1 | 11 | 14.2 | 17.4 | 19.7 | 20.7 |
| Total max current | A | 17.4 | 18.9 | 21.6 | 28.7 | 35.9 | 30.2 |
| Total starting current | A | 87.3 | 47 | 59.1 | 74.8 | 87.5 | 106.6 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 1650 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1800 |
| Shipping weight | kg | 550 | 600 | 600 | 610 | 620 | 740 |
| Operating weight | kg | 564 | 614 | 614 | 624 | 636 | 756 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1V30 WT-290 | VHH 1V32 WT-290 | VHH 1Z35 WT-290 | VHH 1Z40 WT-290 | VHH 1W40 WT- 290 | VHH 1Z50 WT-290 | VHH 1W50 WT-290 | VHH 1W60 WT-290 | VHH 1W70 WT-290 | VHH 1W75 WT-290 | VHH 1W80 WT-290 |
|--------------------|--------------------|--------------------|--------------------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 |
| 65.34 | 66.9 | 77.27 | 91.68 | 97.71 | 108.39 | 114.57 | 128.85 | 140.39 | 158.01 | 165.83 |
| 14.8 | 16.2 | 18.3 | 22 | 24.8 | 26.1 | 31.9 | 35.1 | 38.6 | 42.6 | 45.1 |
| 4.41 | 4.13 | 4.22 | 4.17 | 3.94 | 4.15 | 3.59 | 3.67 | 3.64 | 3.71 | 3.68 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.54 | 5.3 | 5.18 | 5.56 | 5.13 | 5.53 | 5.5 | 5.44 | 5.26 | 5.52 | 5.26 |
| 51 | 51 | 51 | 52 | 53 | 52 | 55 | 58 | 58 | 60 | 61 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 14.8 | 16.2 | 18.3 | 22 | 24.8 | 26.1 | 31.9 | 35.1 | 38.6 | 42.6 | 45.1 |
| 27.7 | 30.4 | 34.2 | 41.2 | 46.6 | 49 | 59.8 | 65.9 | 72.3 | 79.9 | 84.5 |
| 44 | 42.8 | 53.9 | 61 | 72.5 | 74.6 | 89.3 | 99.8 | 103.3 | 107.9 | 111.2 |
| 132.6 | 144.5 | 144.5 | 159.2 | 215 | 188.8 | 258 | 326 | 390 | 417 | 417 |
| | | | | | | | | | | |
| 1650 | 1650 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 1800 | 1800 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| 780 | 880 | 1020 | 1050 | 1110 | 1060 | 1140 | 1150 | 1170 | 1200 | 1200 |
| 799 | 913 | 1053 | 1086 | 1146 | 1096 | 1179 | 1189 | 1210 | 1246 | 1246 |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 2Q7 WT-290 | VHH 2S7 WT-290 | VHH 2S12 WT-290 | VHH 2S15 WT-290 | VHH 2S20 WT-290 | VHH 2V20 WT-290 |
|--|---------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 44.32 | 52.98 | 64.36 | 78.1 | 90.32 | 93.78 |
| Nominal power input | kW | 10.8 | 11.8 | 15.2 | 18.6 | 21 | 22 |
| E.E.R. | Coef. | 4.1 | 4.49 | 4.23 | 4.2 | 4.3 | 4.26 |
| Energy class | | 2 | 2 | 2 | 2 | 2 | 2 |
| E.S.E.E.R. | Coef. | 5.25 | 5.54 | 5.65 | 5.33 | 5.29 | 5.6 |
| Noise Pressure Level | dB(A) | 45 | 48 | 49 | 49 | 51 | 52 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 2 | 2 | 2 | 2 | 2 | 2 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 10.8 | 11.8 | 15.2 | 18.6 | 21 | 22 |
| Total running current | A | 20.2 | 22 | 28.4 | 34.8 | 39.4 | 41.4 |
| Total max current | A | 34.8 | 37.8 | 43.2 | 57.4 | 71.8 | 60.4 |
| Total starting current | A | 74 | 56.5 | 72.2 | 89.6 | 102.9 | 115.4 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2110 | 2110 | 2110 | 2110 | 2110 | 2510 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 1000 |
| Height | mm | 1900 | 1900 | 1900 | 1900 | 1900 | 2000 |
| Shipping weight | kg | 1070 | 1160 | 1160 | 1180 | 1200 | 1530 |
| Operating weight | kg | 1102 | 1192 | 1192 | 1212 | 1234 | 1564 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 2V30 WT-290 | VHH 2V32 WT-290 | VHH 2Z35 WT-290 | VHH 2Z40 WT-290 | VHH 2W40 WT-290 | VHH 2Z50 WT-290 | VHH 2W50 WT-290 | VHH 2W60 WT-290 | VHH 2W70 WT-290 | VHH 2W75 WT-290 | VHH 2W80 WT-290 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 |
| 130.68 | 133.8 | 154.54 | 183.36 | 195.42 | 216.78 | 229.14 | 257.7 | 280.78 | 316.02 | 331.66 |
| 29.6 | 32.4 | 36.6 | 44 | 49.6 | 52.2 | 63.8 | 70.2 | 77.2 | 85.2 | 90.2 |
| 4.41 | 4.13 | 4.22 | 4.17 | 3.94 | 4.15 | 3.59 | 3.67 | 3.64 | 3.71 | 3.68 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5.67 | 5.69 | 5.41 | 5.25 | 5.7 | 5.51 | 5.4 | 5.58 | 5.5 | 5.42 | 5.74 |
| 55 | 55 | 55 | 56 | 57 | 56 | 59 | 62 | 62 | 64 | 65 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 29.6 | 32.4 | 36.6 | 44 | 49.6 | 52.2 | 63.8 | 70.2 | 77.2 | 85.2 | 90.2 |
| 55.4 | 60.8 | 68.4 | 82.4 | 93.2 | 98 | 119.6 | 131.8 | 144.6 | 159.8 | 169 |
| 88 | 85.6 | 107.8 | 122 | 145 | 149.2 | 178.6 | 199.6 | 206.6 | 215.8 | 222.4 |
| 149.4 | 163.5 | 174.9 | 203.2 | 247.3 | 241.4 | 308.4 | 360.7 | 411.9 | 448.2 | 462 |
| | | | | | | | | | | |
| 2510 | 2510 | 2510 | 2510 | 2810 | 2510 | 2810 | 2810 | 2810 | 2810 | 2810 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 1590 | 1800 | 1880 | 1950 | 2150 | 1960 | 2210 | 2230 | 2260 | 2360 | 2360 |
| 1630 | 1869 | 1952 | 2028 | 2228 | 2038 | 2294 | 2314 | 2344 | 2465 | 2465 |

VHH for Water Tower connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 4V20 WT-290 | VHH 4V30 WT-290 | VHH 4V32 WT-290 | VHH 4Z35 WT-290 | VHH 4Z40 WT-290 | VHH 4W40 WT-290 |
|--|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 187.56 | 261.36 | 267.6 | 309.08 | 366.72 | 390.84 |
| Nominal power input | kW | 44 | 59.2 | 64.8 | 73.2 | 88 | 99.2 |
| E.E.R. | Coef. | 4.26 | 4.41 | 4.13 | 4.22 | 4.17 | 3.94 |
| Energy class | | 4 | 4 | 4 | 4 | 4 | 4 |
| E.S.E.E.R. | Coef. | 5.51 | 5.62 | 5.54 | 5.74 | 5.98 | 5.81 |
| Noise Pressure Level | dB(A) | 55 | 58 | 58 | 58 | 59 | 60 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 4 | 4 | 4 | 4 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 44 | 59.2 | 64.8 | 73.2 | 88 | 99.2 |
| Total running current | A | 82.8 | 110.8 | 121.6 | 136.8 | 164.8 | 186.4 |
| Total max current | A | 120.8 | 176 | 171.2 | 215.6 | 244 | 290 |
| Total starting current | A | 337.2 | 448.7 | 492.1 | 549.1 | 657.8 | 752.8 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 3310 | 3310 | 3310 | 4110 | 4110 | 4110 |
| Width | mm | 1200 | 1200 | 1200 | 1400 | 1400 | 1400 |
| Height | mm | 2100 | 2100 | 2100 | 2300 | 2300 | 2300 |
| Shipping weight | kg | 2660 | 2750 | 2770 | 3590 | 3670 | 3920 |
| Operating weight | kg | 2706 | 2803 | 2823 | 3654 | 3734 | 3984 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 4Z50 WT-290 | VHH 4W50 WT-290 | VHH 4W60 WT-290 | VHH 4W70 WT-290 | VHH 4W75 WT-290 | VHH 4W80 WT-290 | | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|--|--|--|--|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | | | | | |
| 433.56 | 458.28 | 515.4 | 561.56 | 632.04 | 663.32 | | | | | |
| 104.4 | 127.6 | 140.4 | 154.4 | 170.4 | 180.4 | | | | | |
| 4.15 | 3.59 | 3.67 | 3.64 | 3.71 | 3.68 | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 5.72 | 5.54 | 5.69 | 5.8 | 5.84 | 5.83 | | | | | |
| 59 | 62 | 65 | 65 | 67 | 68 | | | | | |
| 10 | 10 | 10 | 10 | 10 | 10 | | | | | |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 12 | 12 | 12 | 12 | 12 | 12 | | | | | |
| 6 | 6 | 6 | 6 | 6 | 6 | | | | | |
| 29 | 29 | 29 | 29 | 29 | 29 | | | | | |
| 35 | 35 | 35 | 35 | 35 | 35 | | | | | |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | | | | | |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | | | | | |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | | | | | |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | | | | | |
| 104.4 | 127.6 | 140.4 | 154.4 | 170.4 | 180.4 | | | | | |
| 196 | 239.2 | 263.6 | 289.2 | 319.6 | 338 | | | | | |
| 298.4 | 357.2 | 399.2 | 413.2 | 431.6 | 444.8 | | | | | |
| 782.2 | 961.5 | 1070 | 1182 | 1302.8 | 1371.8 | | | | | |
| | | | | | | | | | | |
| 4110 | 4110 | 4110 | 4110 | 4110 | 4110 | | | | | |
| 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | | | | | |
| 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | | | | | |
| 3680 | 3960 | 4010 | 4070 | 4070 | 4100 | | | | | |
| 3744 | 4024 | 4074 | 4134 | 4134 | 4176 | | | | | |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 107 DC-290 | VHH 1S7 DC-290 | VHH 1S12 DC-290 | VHH 1S15 DC-290 | VHH 1S20 DC-290 | VHH 1V20 DC-290 |
|--|---------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 19.07 | 23.16 | 28.37 | 34.55 | 39.2 | 41.33 |
| Nominal power input | kW | 6.3 | 7.1 | 9.1 | 11 | 12.4 | 12.8 |
| E.E.R. | Coef. | 3.03 | 3.26 | 3.12 | 3.14 | 3.16 | 3.23 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.61 | 5.52 | 5.38 | 5.29 | 5.61 | 5.33 |
| Noise Pressure Level | dB(A) | 41 | 44 | 45 | 45 | 47 | 48 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 1 | 1 | 1 | 1 | 1 | 1 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 6.3 | 7.1 | 9.1 | 11 | 12.4 | 12.8 |
| Total running current | A | 11.8 | 13.4 | 17 | 20.6 | 23.3 | 24 |
| Total max current | A | 17.4 | 18.9 | 21.6 | 28.7 | 35.9 | 30.2 |
| Total starting current | A | 87.3 | 47 | 59.1 | 74.8 | 87.5 | 106.6 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 1650 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1800 |
| Shipping weight | kg | 550 | 600 | 600 | 610 | 620 | 740 |
| Operating weight | kg | 564 | 614 | 614 | 624 | 636 | 756 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1V30 DC-290 | VHH 1V32 DC-290 | VHH 1Z35 DC-290 | VHH 1Z40 DC-290 | VHH 1W40 DC-290 | VHH 1Z50 DC-290 | VHH 1W50 DC-290 | VHH 1W60 DC-290 | VHH 1W70 DC-290 | VHH 1W75 DC-290 | VHH 1W80 DC-290 |
|--------------------|--------------------|--------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 |
| 58.08 | 61.25 | 69.62 | 82.79 | 90.74 | 97.15 | 105.91 | 119.05 | 129.57 | 145.02 | 152.76 |
| 17.5 | 19.5 | 21.6 | 26.2 | 29.1 | 31.2 | 36.1 | 40.9 | 44.3 | 47.9 | 50.1 |
| 3.32 | 3.14 | 3.22 | 3.16 | 3.12 | 3.11 | 2.93 | 2.91 | 2.92 | 3.03 | 3.05 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.51 | 5.43 | 5.55 | 5.55 | 5.33 | 5.18 | 5.59 | 5.59 | 5.53 | 5.21 | 5.54 |
| 51 | 51 | 51 | 52 | 53 | 52 | 55 | 58 | 58 | 60 | 61 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 17.5 | 19.5 | 21.6 | 26.2 | 29.1 | 31.2 | 36.1 | 40.9 | 44.3 | 47.9 | 50.1 |
| 32.7 | 36.5 | 40.5 | 49.1 | 54.5 | 58.5 | 67.7 | 76.7 | 83.1 | 89.7 | 93.9 |
| 44 | 42.8 | 53.9 | 61 | 72.5 | 74.6 | 89.3 | 99.8 | 103.3 | 107.9 | 111.2 |
| 132.6 | 144.5 | 144.5 | 159.2 | 215 | 188.8 | 258 | 326 | 390 | 417 | 417 |
| | | | | | | | | | | |
| 1650 | 1650 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 | 2110 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 1800 | 1800 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| 780 | 880 | 1020 | 1050 | 1110 | 1060 | 1140 | 1150 | 1170 | 1200 | 1200 |
| 798 | 913 | 1053 | 1086 | 1146 | 1096 | 1179 | 1189 | 1210 | 1246 | 1246 |

VHH for Dry Cooler connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 2Q7 DC-290 | VHH 2S7 DC-290 | VHH 2S12 DC-290 | VHH 2S15 DC-290 | VHH 2S20 DC-290 | VHH 2V20 DC-290 |
|--|---------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 38.14 | 46.32 | 56.74 | 69.1 | 78.4 | 82.66 |
| Nominal power input | kW | 12.6 | 14.2 | 18.2 | 22 | 24.8 | 25.6 |
| E.E.R. | Coef. | 3.03 | 3.26 | 3.12 | 3.14 | 3.16 | 3.23 |
| Energy class | | 2 | 2 | 2 | 2 | 2 | 2 |
| E.S.E.E.R. | Coef. | 5.41 | 5.54 | 5.4 | 5.45 | 5.45 | 5.42 |
| Noise Pressure Level | dB(A) | 45 | 48 | 49 | 49 | 51 | 52 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 2 | 2 | 2 | 2 | 2 | 2 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 12.6 | 14.2 | 18.2 | 22 | 24.8 | 25.6 |
| Total running current | A | 23.6 | 26.8 | 34 | 41.2 | 46.6 | 48 |
| Total max current | A | 34.8 | 37.8 | 43.2 | 57.4 | 71.8 | 60.4 |
| Total starting current | A | 79.1 | 63.7 | 80.6 | 99.2 | 113.7 | 125.3 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2110 | 2110 | 2110 | 2110 | 2110 | 2510 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 1000 |
| Height | mm | 1900 | 1900 | 1900 | 1900 | 1900 | 2000 |
| Shipping weight | kg | 1070 | 1160 | 1160 | 1180 | 1200 | 1530 |
| Operating weight | kg | 1102 | 1192 | 1192 | 1212 | 1234 | 1564 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 2V30 DC-290 | VHH 2V32 DC-290 | VHH 2Z35 DC-290 | VHH 2Z40 DC-290 | VHH 2W40 DC-290 | VHH 2Z50 DC-290 | VHH 2W50 DC-290 | VHH 2W60 DC-290 | VHH 2W70 DC-290 | VHH 2W75 DC-290 | VHH 2W80 DC-290 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 | R290 |
| 116.16 | 122.5 | 139.24 | 165.58 | 181.48 | 194.3 | 211.82 | 238.1 | 259.14 | 290.04 | 305.52 |
| 35 | 39 | 43.2 | 52.4 | 58.2 | 62.4 | 72.2 | 81.8 | 88.6 | 95.8 | 100.2 |
| 3.32 | 3.14 | 3.22 | 3.16 | 3.12 | 3.11 | 2.93 | 2.91 | 2.92 | 3.03 | 3.05 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5.48 | 5.34 | 5.59 | 5.33 | 5.7 | 5.63 | 5.61 | 5.71 | 5.55 | 5.45 | 5.45 |
| 55 | 55 | 55 | 56 | 57 | 56 | 59 | 62 | 62 | 64 | 65 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 35 | 39 | 43.2 | 52.4 | 58.2 | 62.4 | 72.2 | 81.8 | 88.6 | 95.8 | 100.2 |
| 65.4 | 73 | 81 | 98.2 | 109 | 117 | 135.4 | 153.4 | 166.2 | 179.4 | 187.8 |
| 88 | 85.6 | 107.8 | 122 | 145 | 149.2 | 178.6 | 199.6 | 206.6 | 215.8 | 222.4 |
| 164.4 | 181.8 | 193.8 | 226.9 | 271 | 269.9 | 332.1 | 393.1 | 444.3 | 477.6 | 490.2 |
| | | | | | | | | | | |
| 2510 | 2510 | 2510 | 2510 | 2810 | 2510 | 2810 | 2810 | 2810 | 2810 | 2810 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 1590 | 1800 | 1880 | 1950 | 2150 | 1960 | 2210 | 2230 | 2260 | 2360 | 2360 |
| 1630 | 1869 | 1951 | 2027 | 2227 | 2037 | 2293 | 2313 | 2343 | 2465 | 2465 |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 4V20 DC-290 | VHH 4V30 DC-290 | VHH 4V32 DC-290 | VHH 4Z35 DC-290 | VHH 4Z40 DC-290 | VHH 4W40 DC-290 |
|--|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | R290 | R290 | R290 | R290 | R290 | R290 |
| Total cooling capacity | kW | 165.32 | 232.32 | 245 | 278.48 | 331.16 | 362.96 |
| Nominal power input | kW | 51.2 | 70 | 78 | 86.4 | 104.8 | 116.4 |
| E.E.R. | Coef. | 3.23 | 3.32 | 3.14 | 3.22 | 3.16 | 3.12 |
| Energy class | | 4 | 4 | 4 | 4 | 4 | 4 |
| E.S.E.E.R. | Coef. | 5.92 | 5.99 | 5.68 | 5.63 | 5.61 | 5.62 |
| Noise Pressure Level | dB(A) | 55 | 58 | 58 | 58 | 59 | 60 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 4 | 4 | 4 | 4 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 51.2 | 70 | 78 | 86.4 | 104.8 | 116.4 |
| Total running current | A | 96 | 130.8 | 146 | 162 | 196.4 | 218 |
| Total max current | A | 120.8 | 176 | 171.2 | 215.6 | 244 | 290 |
| Total starting current | A | 386.7 | 523.7 | 583.6 | 643.6 | 776.3 | 871.3 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 3310 | 3310 | 3310 | 4110 | 4110 | 4110 |
| Width | mm | 1200 | 1200 | 1200 | 1400 | 1400 | 1400 |
| Height | mm | 2100 | 2100 | 2100 | 2300 | 2300 | 2300 |
| Shipping weight | kg | 2660 | 2750 | 2770 | 3590 | 3660 | 3920 |
| Operating weight | kg | 2706 | 2803 | 2823 | 3654 | 3724 | 3984 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

R290

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 4Z50 DC-290 | VHH 4W50 DC-290 | VHH 4W60 DC-290 | VHH 4W70 DC-290 | VHH 4W75 DC-290 | VHH 4W80 DC-290 | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|--|
| | | | | | | | | | | |
| R290 | R290 | R290 | R290 | R290 | R290 | | | | | |
| 388.6 | 423.64 | 476.2 | 518.28 | 580.08 | 611.04 | | | | | |
| 124.8 | 144.4 | 163.6 | 177.2 | 191.6 | 200.4 | | | | | |
| 3.11 | 2.93 | 2.91 | 2.92 | 3.03 | 3.05 | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 5.85 | 5.62 | 5.86 | 5.73 | 5.92 | 5.98 | | | | | |
| 59 | 62 | 65 | 65 | 67 | 68 | | | | | |
| 10 | 10 | 10 | 10 | 10 | 10 | | | | | |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 12 | 12 | 12 | 12 | 12 | 12 | | | | | |
| 6 | 6 | 6 | 6 | 6 | 6 | | | | | |
| 39 | 39 | 39 | 39 | 39 | 39 | | | | | |
| 45 | 45 | 45 | 45 | 45 | 45 | | | | | |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | | | | | |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | | | | | |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | | | | | |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | | | | | |
| 124.8 | 144.4 | 163.6 | 177.2 | 191.6 | 200.4 | | | | | |
| 234 | 270.8 | 306.8 | 332.4 | 358.8 | 375.6 | | | | | |
| 298.4 | 357.2 | 399.2 | 413.2 | 431.6 | 444.8 | | | | | |
| 924.7 | 1080 | 1232 | 1344 | 1449.8 | 1512.8 | | | | | |
| | | | | | | | | | | |
| 4110 | 4110 | 4110 | 4110 | 4110 | 4110 | | | | | |
| 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | | | | | |
| 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | | | | | |
| 3680 | 3960 | 4010 | 4070 | 4070 | 4100 | | | | | |
| 3744 | 4024 | 4074 | 4134 | 4134 | 4176 | | | | | |

VHH for Water Tower connection



Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 1S10 WT-ZE | VHH 1S12 WT-ZE | VHH 1V15 WT-ZE | VHH 1V20 WT-ZE | VHH 1V25 WT-ZE | VHH 1Z30 WT-ZE |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE |
| Total cooling capacity | kW | 22.68 | 25.51 | 32.07 | 36.86 | 46.19 | 53.42 |
| Nominal power input | kW | 5.4 | 6.6 | 7.6 | 8.8 | 10.7 | 12.3 |
| E.E.R. | Coef. | 4.2 | 3.87 | 4.22 | 4.19 | 4.32 | 4.34 |
| Energy class | | 1 | 1 | 1 | 1 | 1 | 1 |
| E.S.E.E.R. | Coef. | 5.2 | 5.2 | 5.27 | 5.49 | 5.52 | 5.53 |
| Noise Pressure Level | dB(A) | 45 | 47 | 47 | 50 | 51 | 52 |
| Distance | m | 10 | 10 | 10 | 10 | 10 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 1 | 1 | 1 | 1 | 1 | 1 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | 29 | 29 |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | 35 | 35 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 5.4 | 6.6 | 7.6 | 8.8 | 10.7 | 12.3 |
| Total running current | A | 10.1 | 12.3 | 14.3 | 16.5 | 20.1 | 23 |
| Total max current | A | 14.7 | 16.1 | 20.2 | 27.2 | 29.9 | 33.8 |
| Total starting current | A | 59.5 | 59.5 | 59.5 | 89.9 | 122.7 | 122.7 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 1450 | 1450 | 1450 | 1450 | 1450 | 2110 |
| Width | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Height | mm | 1560 | 1560 | 1560 | 1560 | 1560 | 1900 |
| Shipping weight | kg | 610 | 620 | 670 | 680 | 710 | 920 |
| Operating weight | kg | 624 | 634 | 684 | 694 | 726 | 937 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1Z40 WT-ZE | VHH 2S10 WT-ZE | VHH 2S12 WT-ZE | VHH 2V15 WT-ZE | VHH 2V20 WT-ZE | VHH 2V25 WT-ZE | VHH 2Z30 WT-ZE | VHH 2Z40 WT-ZE | VHH 4S10 WT-ZE | VHH 4S12 WT-ZE | VHH 4V15 WT-ZE |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE |
| 65.7 | 45.36 | 51.02 | 64.14 | 73.72 | 92.38 | 106.84 | 131.4 | 90.72 | 102.04 | 128.28 |
| 15 | 10.8 | 13.2 | 15.2 | 17.6 | 21.4 | 24.6 | 30 | 21.6 | 26.4 | 30.4 |
| 4.38 | 4.2 | 3.87 | 4.22 | 4.19 | 4.32 | 4.34 | 4.38 | 4.2 | 3.87 | 4.22 |
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |
| 5.32 | 5.33 | 5.3 | 5.32 | 5.57 | 5.61 | 5.31 | 5.58 | 5.81 | 6 | 5.66 |
| 53 | 49 | 51 | 51 | 54 | 55 | 56 | 57 | 52 | 54 | 54 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 15 | 10.8 | 13.2 | 15.2 | 17.6 | 21.4 | 24.6 | 30 | 21.6 | 26.4 | 30.4 |
| 28.2 | 20.2 | 24.6 | 28.6 | 33 | 40.2 | 46 | 56.4 | 40.4 | 49.2 | 57.2 |
| 41.1 | 29.4 | 32.2 | 40.4 | 54.4 | 59.8 | 67.6 | 82.2 | 58.8 | 64.4 | 80.8 |
| 144.5 | 60.1 | 66.7 | 72.7 | 94.5 | 121.7 | 130.4 | 156.9 | 166.4 | 199.4 | 229.4 |
| | | | | | | | | | | |
| 2110 | 2110 | 2110 | 2510 | 2510 | 2510 | 2510 | 2510 | 3310 | 3310 | 3310 |
| 800 | 800 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 1900 | 1900 | 1900 | 2000 | 2000 | 2000 | 2000 | 2000 | 2100 | 2100 | 2100 |
| 960 | 1180 | 1200 | 1530 | 1540 | 1610 | 1680 | 1750 | 2240 | 2290 | 2490 |
| 982 | 1212 | 1232 | 1562 | 1572 | 1644 | 1716 | 1797 | 2286 | 2336 | 2536 |

VHH for Water Tower connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 4V20 WT-ZE | VHH 4V25 WT-ZE | VHH 4Z30 WT-ZE | VHH 4Z40 WT-ZE | | |
|--|---------|-------------------|-------------------|-------------------|-------------------|--|--|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | | |
| Total cooling capacity | kW | 147.44 | 184.76 | 213.68 | 262.8 | | |
| Nominal power input | kW | 35.2 | 42.8 | 49.2 | 60 | | |
| E.E.R. | Coef. | 4.19 | 4.32 | 4.34 | 4.38 | | |
| Energy class | | 4 | 4 | 4 | 4 | | |
| E.S.E.E.R. | Coef. | 5.56 | 5.7 | 5.94 | 5.78 | | |
| Noise Pressure Level | dB(A) | 57 | 58 | 59 | 60 | | |
| Distance | m | 10 | 10 | 10 | 10 | | |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | | |
| Compressors number | n° | 4 | 4 | 4 | 4 | | |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | | |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | | |
| Cond. inlet water temperature | °C | 29 | 29 | 29 | 29 | | |
| Cond. outlet water temperature | °C | 35 | 35 | 35 | 35 | | |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | | |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | | |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | | |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | | |
| Total power input | kW | 35.2 | 42.8 | 49.2 | 60 | | |
| Total running current | A | 66 | 80.4 | 92 | 112.8 | | |
| Total max current | A | 108.8 | 119.6 | 135.2 | 164.4 | | |
| Total starting current | A | 270 | 332.2 | 375.7 | 459.1 | | |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 3310 | 3310 | 4110 | 4110 | | |
| Width | mm | 1000 | 1000 | 1200 | 1200 | | |
| Height | mm | 2100 | 2100 | 2300 | 2300 | | |
| Shipping weight | kg | 2520 | 2670 | 3330 | 3380 | | |
| Operating weight | kg | 2566 | 2723 | 3383 | 3433 | | |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection



Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 1S10 DC-ZE | VHH 1S12 DC-ZE | VHH 1V15 DC-ZE | VHH 1V20 DC-ZE | VHH 1V25 DC-ZE | VHH 1Z30 DC-ZE | VHH 1Z40 DC-ZE | VHH 2S10 DC-ZE | VHH 2S12 DC-ZE | VHH 2V15 DC-ZE | VHH 2V20 DC-ZE |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | |
| HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE |
| 20.01 | 22.56 | 28.21 | 31.96 | 39.97 | 46.96 | 57.09 | 40.02 | 45.12 | 56.42 | 63.92 |
| 6.1 | 7.4 | 8.6 | 9.8 | 12 | 14.1 | 17.1 | 12.2 | 14.8 | 17.2 | 19.6 |
| 3.28 | 3.05 | 3.28 | 3.26 | 3.33 | 3.33 | 3.34 | 3.28 | 3.05 | 3.28 | 3.26 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 5.48 | 5.59 | 5.44 | 5.47 | 5.27 | 5.55 | 5.59 | 5.46 | 5.43 | 5.67 | 5.26 |
| 45 | 47 | 47 | 50 | 51 | 52 | 53 | 49 | 51 | 51 | 54 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 6.1 | 7.4 | 8.6 | 9.8 | 12 | 14.1 | 17.1 | 12.2 | 14.8 | 17.2 | 19.6 |
| 11.5 | 13.9 | 16 | 18.3 | 22.4 | 26.4 | 32.1 | 23 | 27.8 | 32 | 36.6 |
| 14.7 | 16.1 | 20.2 | 27.2 | 29.9 | 33.8 | 41.1 | 29.4 | 32.2 | 40.4 | 54.4 |
| 59.5 | 59.5 | 59.5 | 89.9 | 122.7 | 122.7 | 144.5 | 64.3 | 71.5 | 77.8 | 99.9 |
| | | | | | | | | | | |
| 1450 | 1450 | 1450 | 1450 | 1450 | 2110 | 2110 | 2110 | 2110 | 2510 | 2510 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 1000 | 1000 |
| 1560 | 1560 | 1560 | 1560 | 1560 | 1900 | 1900 | 1900 | 1900 | 2000 | 2000 |
| 610 | 620 | 670 | 680 | 710 | 920 | 960 | 1180 | 1200 | 1530 | 1540 |
| 624 | 634 | 684 | 694 | 726 | 937 | 982 | 1212 | 1232 | 1562 | 1572 |

VHH for Dry Cooler connection



Water cooled unit with scroll or reciprocating compressors for indoor installation

| Greenmiser | | VHH 2V25 DC-ZE | VHH 2Z30 DC-ZE | VHH 2Z40 DC-ZE | VHH 4S10 DC-ZE | VHH 4S12 DC-ZE | VHH 4V15 DC-ZE |
|--|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CHILLER PERFORMANCE | | | | | | | |
| Refrigerant | | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE | HFO1234ZE |
| Total cooling capacity | kW | 79.94 | 93.92 | 114.18 | 80.04 | 90.24 | 112.84 |
| Nominal power input | kW | 24 | 28.2 | 34.2 | 24.4 | 29.6 | 34.4 |
| E.E.R. | Coef. | 3.33 | 3.33 | 3.34 | 3.28 | 3.05 | 3.28 |
| Energy class | | 2 | 2 | 2 | 4 | 4 | 4 |
| E.S.E.E.R. | Coef. | 5.71 | 5.41 | 5.65 | 5.9 | 5.67 | 5.96 |
| Noise Pressure Level | dB(A) | 55 | 56 | 57 | 52 | 64.5 | 54 |
| Distance | m | 10 | 10 | 10 | 10 | 3 | 10 |
| WORKING CONDITIONS | | | | | | | |
| Compressors type | Type | Recip. | Recip. | Recip. | Recip. | Recip. | Recip. |
| Compressors number | n° | 2 | 2 | 2 | 4 | 4 | 4 |
| Evap. inlet water temperature | °C | 12 | 12 | 12 | 12 | 12 | 12 |
| Evap. outlet water temperature | °C | 6 | 6 | 6 | 6 | 6 | 6 |
| Cond. inlet water temperature | °C | 39 | 39 | 39 | 39 | 39 | 39 |
| Cond. outlet water temperature | °C | 45 | 45 | 45 | 45 | 45 | 45 |
| Condenser coil type (*1) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Evaporator type (*2) | Type | BPHE | BPHE | BPHE | BPHE | BPHE | BPHE |
| Power circuit voltage | V/Ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Control circuit voltage | V/Ph/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Total power input | kW | 24 | 28.2 | 34.2 | 24.4 | 29.6 | 34.4 |
| Total running current | A | 44.8 | 52.8 | 64.2 | 46 | 55.6 | 64 |
| Total max current | A | 59.8 | 67.6 | 82.2 | 58.8 | 64.4 | 80.8 |
| Total starting current | A | 128.6 | 140.6 | 168.6 | 187.4 | 223.4 | 254.9 |
| DIMENSIONS | | | | | | | |
| Length with cabinet | mm | 2510 | 2510 | 2510 | 3310 | 3310 | 3310 |
| Width | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Height | mm | 2000 | 2000 | 2000 | 2100 | 2100 | 2100 |
| Shipping weight | kg | 1610 | 1680 | 1750 | 2240 | 2290 | 2490 |
| Operating weight | kg | 1644 | 1716 | 1797 | 2286 | 2336 | 2536 |
| (*1) BPHE: Brazed Plate Heat Exchanger (*2) BPHE: Brazed Plate Heat Exchanger | | | | | | | |

VHH for Dry Cooler connection

Water cooled unit with scroll or reciprocating compressors for indoor installation

| VHH 4V20 DC-ZE | VHH 4V25 DC-ZE | VHH 4Z30 DC-ZE | VHH 4Z40 DC-ZE | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| HF01234ZE | HF01234ZE | HF01234ZE | HF01234ZE | | | | | | | |
| 127.84 | 159.88 | 187.84 | 228.36 | | | | | | | |
| 39.2 | 48 | 56.4 | 68.4 | | | | | | | |
| 3.26 | 3.33 | 3.33 | 3.34 | | | | | | | |
| 4 | 4 | 4 | 4 | | | | | | | |
| 5.6 | 5.74 | 5.96 | 5.58 | | | | | | | |
| 57 | 58 | 59 | 60 | | | | | | | |
| 10 | 10 | 10 | 10 | | | | | | | |
| | | | | | | | | | | |
| Recip. | Recip. | Recip. | Recip. | | | | | | | |
| 4 | 4 | 4 | 4 | | | | | | | |
| 12 | 12 | 12 | 12 | | | | | | | |
| 6 | 6 | 6 | 6 | | | | | | | |
| 39 | 39 | 39 | 39 | | | | | | | |
| 45 | 45 | 45 | 45 | | | | | | | |
| BPHE | BPHE | BPHE | BPHE | | | | | | | |
| BPHE | BPHE | BPHE | BPHE | | | | | | | |
| 400/3/50 | 400/3/50 | 400/3/50 | 380/3/51 | | | | | | | |
| 230/1/50 | 230/1/50 | 230/1/50 | 230/1/51 | | | | | | | |
| 39.2 | 48 | 56.4 | 68.4 | | | | | | | |
| 73.2 | 89.6 | 105.6 | 128.4 | | | | | | | |
| 108.8 | 119.6 | 135.2 | 164.4 | | | | | | | |
| 297 | 366.7 | 426.7 | 517.6 | | | | | | | |
| | | | | | | | | | | |
| 3310 | 3310 | 4110 | 4110 | | | | | | | |
| 1000 | 1000 | 1200 | 1200 | | | | | | | |
| 2100 | 2100 | 2300 | 2300 | | | | | | | |
| 2520 | 2670 | 3330 | 3380 | | | | | | | |
| 2566 | 2723 | 3383 | 3433 | | | | | | | |