

MODEL UACU-PHE

PACKAGED AIR COOLED CHILLER

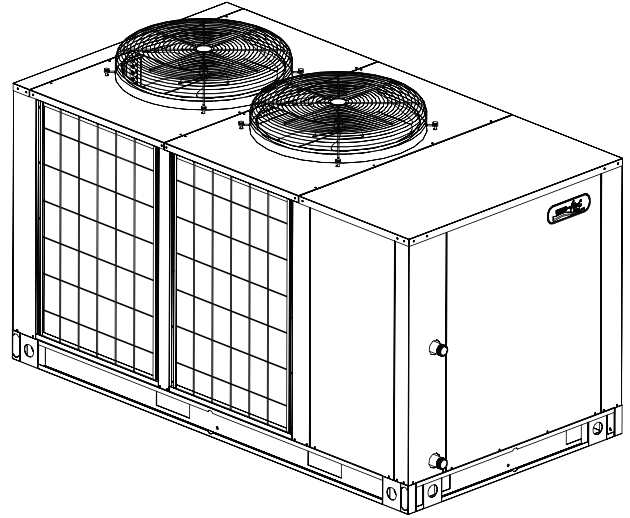
5.83 -30.83 TR

20.51 - 108.44 kW



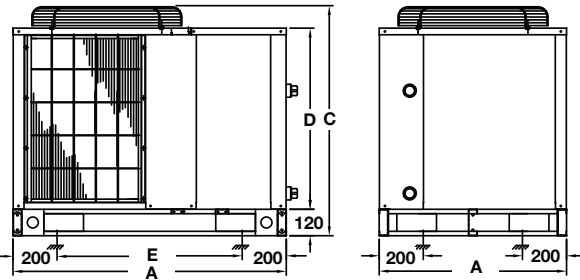
FEATURES

- COMPACT SIZE AND EASY INSTALLATION.
- HIGH EFFICIENCY HERMETIC SCROLL COMPRESSOR.
- MICROPROCESSOR CONTROL
- EVAPORATOR USED PLATE HEAT EXCHANGER.
- FREEZE PROTECTION.
- HIGH AND LOW PRESSURE SWITCHES FOR PROTECTION OF VALUABLE EQUIPMENT AND STANDARD ON ALL UNITS.
- REFRIGERANT ARE R-407C OR R-410A (OPTION).



DIMENSIONAL DATA

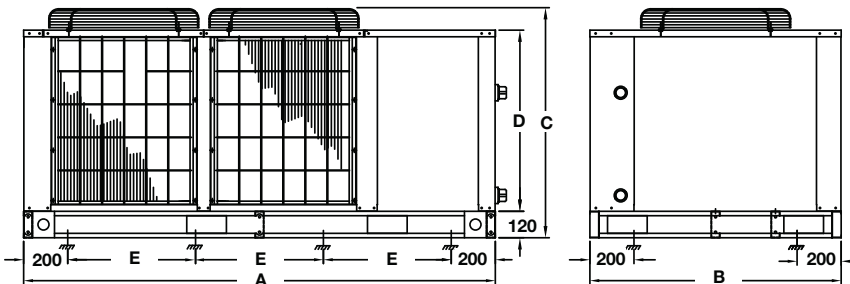
MODEL UACU-PHE 007-012



| MODEL | A | B | C | D | E |
|--------------|-------|-------|-------|-----|-------|
| UACU-PHE 007 | 1,240 | 850 | 1,044 | 822 | 840 |
| UACU-PHE 009 | 1,240 | 850 | 1,044 | 822 | 840 |
| UACU-PHE 010 | 1,600 | 1,140 | 1,044 | 822 | 1,200 |
| UACU-PHE 012 | 1,600 | 1,140 | 1,044 | 822 | 1,200 |

Unit : mm. (Millimeter)

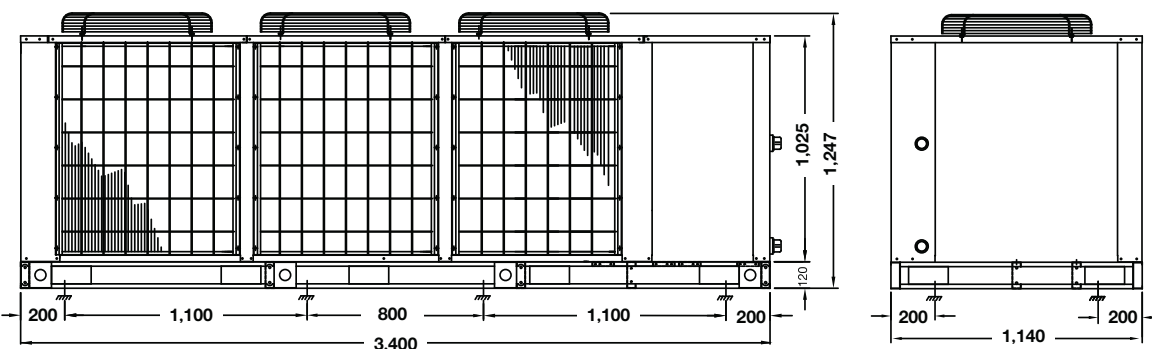
MODEL UACU-PHE 015-030



| MODEL | A | B | C | D | E |
|--------------|-------|-------|-------|-------|-----|
| UACU-PHE 015 | 2,140 | 1,140 | 1,044 | 288 | 580 |
| UACU-PHE 020 | 2,140 | 1,140 | 1,247 | 1,025 | 580 |
| UACU-PHE 025 | 2,500 | 1,140 | 1,247 | 1,025 | 700 |
| UACU-PHE 030 | 2,500 | 1,140 | 1,247 | 1,025 | 700 |

Unit : mm. (Millimeter)

MODEL UACU-PHE 040



GUIDE SPECIFICATION

THE UACU-PHE IS A PACKAGE AIR COOLED CHILLER.

STANDARD ACCESSORIES

UNIT CASING

- CONSTRUCTED OF ZINC COATED HEAVY GAUGE, GALVANIZED STEEL.
- POWDER COATING FOR PROTECTION AGAINST RUST.

COMPRESSOR

- HERMETIC SCROLL COMPRESSOR(S).
- ALL COMPRESSOR ARE MOUNTED ON VIBRATION ISOLATORS.

AIR COOLED CONDENSER

- SEAMLESS COPPER TUBES, MECHANICALLY EXPANDED INTO ALUMINIUM FINNS WITH FULL HEIGHT COLLAS.
- LEAK TESTED AT 350 PSIG FROM FACTORY.
- FAN SHALL BE DYNAMICALLY AND STATICALLY BALANCED, DIRECT DRIVE.

EVAPORATOR

- INDEPENDENT REFRIGERANT CIRCUIT.
- BRAZED PLATE HEAT EXCHANGER.
- INSULATED WITH A CLOSED-CELL INSULATION.



CONTROL

- THE CHILLER SHALL BE COMPLETELY FACTORY-WIRED WITH NECESSARY SAFETY CONTROL.
- SAFETY CONTROL SHALL INCLUDE HIGH AND LOW PRESSURE SWITCHES WITH MANUAL RESET, COMPRESSOR TIMER DELAY, WATER TEMPERATURE ERROR SENSOR, AND DISPLAY FOR ERROR CODES

STANDARD ACCESSORIES

- REFRIGERATION PARTS
- THERMOSTATIC EXPANSION VALVES
- SIGHT GLASSES
- FILTER DRIERS
- CHECK VALVES FOR PARALLEL CIRCUIT COMPRESSORS

ELECTRICAL PARTS

- MAGNETIC CONTACTOR W/OVERLOAD FOR FAN MOTOR
- MAGNETIC CONTACTOR W/OVERLOAD FOR COMPRESSOR
- HIGH-LOW PRESSURE SWITCHES
- MICROPROCESSOR CONTROL (PLC)
- DISPLAY TEMP CONTROL
- TIMER DELAY RELAY DEVICES (ON BOARD)
- TEMPERATURE CONTROL DEVICE (ON BOARD)
- FREEZESTAT (ON BOARD)

SPECIFICATION MODEL : UACU-PHE

| MODEL | UACU-PHE | 007 | 009 | 010 | 012 | 015 | 020 | 025 | 030 | 040 |
|-----------------------------|----------------------|--|-------|--------|--------|--------|--------|--------|--------|--------|
| NOMINAL COOLING CAPACTY | MBH | 70 | 80 | 95 | 120 | 145 | 185 | 240 | 290 | 370 |
| POWER CONSUMPTION | kW | 7.39 | 8.67 | 10.43 | 12.27 | 14.47 | 19.05 | 23.07 | 28.71 | 37.87 |
| COMPRESSOR | TYPE | HERMETIC (SCROLL) | | | | | | | | |
| | HP. | 7.5 | 9 | 10 | 12 | 15 | 20 | 12 | 15 | 20 |
| | Qty. / Unit | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| CONDENSER COIL | Type / Material | ALUMINIUM CORRUGATED FIN / ALUMINIUM FIN AND COPPER TUBE | | | | | | | | |
| | Face Area (Sq...ft.) | 14.22 | 14.22 | 24.00 | 24.00 | 32.00 | 41.67 | 47.78 | 47.78 | 67.22 |
| | Rows.... (Fin/in) | 2..16 | 2..16 | 2..16 | 2..16 | 2..16 | 2..16 | 2..16 | 3..14 | 3..10 |
| | Tube Size (in) | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| CONDENSER FAN | Type | PROPELLER FAN : VERTICAL DISCHARGE : DIRECT DRIVE | | | | | | | | |
| | Diameter (in) | 24 | 24 | 30 | 30 | 24 | 24 | 30 | 30 | 30 |
| | Each Motor(HP.) | 3/4 | 3/4 | 1 | 1 | 3/4 | 3/4 | 1 | 1 | 1 |
| | Rpm. | 900 | | | | | | | | |
| | Qty./Unit | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| | Air Quantity (Cfm.) | 7,000 | 8,000 | 10,000 | 10,000 | 14,000 | 14,000 | 20,000 | 20,000 | 30,000 |
| REFRIGERANT | Type | R-22 | | | | | | | | |
| | Charge | HOLDING | | | | | | | | |
| WATER CHILLER | | PLATE HEAT EXCHANGER | | | | | | | | |
| No. Of Circuits | | SINGLE | | | | | | | | |
| Chilled Water Flow Rate | (GPM) | 14 | 16 | 19 | 24 | 29 | 37 | 48 | 58 | 74 |
| Chilled Water Temp. In/Out | (°F) | 55 / 45 | | | | | | | | |
| Chilled Water Pressure Drop | (Ft. WG) | 7.38 | 6.71 | 6.87 | 6.07 | 7.50 | 7.15 | 6.07 | 7.50 | 7.15 |
| Water Connection In/Out | inch | 1 | 1 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 2 | 2 | 2 |
| COMPRESSOR (Each) | V / PH / Hz | 380 / 3 / 50 | | | | | | | | |
| | Power Input (Watt) | 6,542 | 7,821 | 8,957 | 10,800 | 13,622 | 18,200 | 10,800 | 13,622 | 18,200 |
| | FLA. (Amp.) | 12.1 | 14.3 | 20.7 | 22.9 | 24.2 | 35.7 | 22.9 | 24.2 | 35.7 |
| | LRA. (Amp.) | 98 | 130 | 130 | 145 | 175 | 215 | 145 | 175 | 215 |
| FAN MOTOR (Each) | V / PH / Hz | 380 / 3 / 50 | | | | | | | | |
| | Power Input (Watt) | 850 | 850 | 1,470 | 1,470 | 850 | 850 | 1,470 | 1,470 | 1,470 |
| | FLA. (Amp.) | 1.2 | 1.2 | 2.3 | 2.3 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 |
| WEIGHT | Operation (Kgs.) | 214 | 233 | 302 | 337 | 427 | 470 | 514 | 572 | 740 |

FLA = Full load Amp. Nominal Cooling Capacity Based on 38°F Suction Temp. and 95 °F Ambient Temp
 LRA = Locked Rotor Amp. Liquid Subcooled 15 °F

Specifications are subjected to change without notice for future improvement.

**Eurovent certified for model DAH1 only.



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