

FRAME AND CABINET

The cabinet comprises an anodized aluminium frame of epoxy powder coated black color paint with nylon corners and removable steel sheet panels. All panels shall be externally installed onto the cabinet by using special stopper system without using screws. The stopper system shall also facilitate the removable of panels for additional ease of field installation, service and maintenance on the system. All panels and access doors shall be fabricated from sturdy heavy gauge of 1.0mm steel sheets with epoxy powder coated oven baked black color paint to provide a durable finish. All panels shall be of 25mm (1 inch) thick single skin and lined with minimum 2lbs/ft³ density thermal and acoustical fiberglass insulation with fire resistant of Class O (BS 476 Part 6, 7). The system shall be designed for front access only with hinged and lock type full height doors.



COOLING COIL

Computer selected coil design, using interwoven coil surface increases unit efficiency at low loads. Air is drawn through the coil at low velocity providing effective surface exposure with minimum turbulence. This provides greater efficiency in the cooling and dehumidification process.

FAN SECTION

Blowers shall be belt driven double-inlet-double-width (DIDW), statically and dynamically balanced with multiple forward curved blades mounted on a solid steel keyed shaft. Heavy-duty V-belt fan drive (sized for 200% safety factor) with cast iron pulleys keyed and secured to the blower shaft shall be provided.



FILTERS

The system shall be provided with 2 inches (50mm) deep (for model 02-05) or 4 inches (100mm) deep (for model 07-26) extended surface pleated disposable type filters rated for MERV8 efficiency to ASHRAE 52.2 standard (equivalent to EU4). Filters shall be withdrawable from the front of the unit.



ELECTRICAL REHEAT

The three stage stainless steel finned tubular reheat coils provide ample capacity to maintain room dry bulb conditions during a system call for dehumidification. Three equal stages give a more accurate controlled response to the requirements of the computer room. The heating elements are protected by thermal safety switches. The three stages of reheat create a noticeable lowering of energy use.

HOT GAS REHEAT (OPTIONAL)

The unit shall incorporate a hot gas reheat coil located downstream of the evaporator coil with modulating valve which is completely integrated to the unit's microprocessor control. For units with two refrigerant circuits, each circuit shall operate independently with its own modulating valve.

HUMIDIFICATION (OPTIONAL)

The disposable cartridge electric steam generator humidifier provides humidification down stream of the cooling coil. The humidifier is designed to allow all units at any voltage to produce full rated steam output at an optimum low water level.

ELECTRONIC EXPANSION VALVE (EEV) (OPTIONAL)

The refrigerant circuit(s) shall be provided with an Electronic Expansion Valve (EEV) for evaporator in lieu of standard Thermal Expansion Valve (TXV) to allow an efficient modulation control of refrigeration and consistent energy saving performances.

AP Precision HUMID INTERFACE

The AP Precision Humid interface allows the control of humidifiers directly from the AP Precision microprocessor controller.

COMPRESSORIZED SYSTEMS

The refrigeration system uses highly efficient and quiet scroll compressors. The scroll compressor has a high EER, low sound power level and is highly reliable. The high efficiency is due to the controlled orbit with floating seals and advanced scroll geometry design. There is no contact of the mechanical parts in the scroll design which eliminates mechanical wear and tear. The motor is 100% cooled by suction gas. A check valve is located directly above the fixed scroll discharge port. This prevents the compressor from running backwards after the power has been switched off (i.e. no rattling and no shut-down noise). The motor is fitted with a thermostat which protects the compressor if a malfunction occurs. The refrigeration circuit includes built in compressor overload protection, filter drier, sight glass, adjustable expansion valve, low pressure override timer, manual reset high pressure control, short-cycle timer and rotalock service valves.



AIR COOLED SYSTEMS

A wide range of sizes of remote mounted air cooled condensers are available from AP Precision in vertical discharge. Condensers are manufactured by AP Precision and include circuits sized to match the heat rejection of the corresponding compressors. The industrial duty design includes galvanised corrosion resistant housings, high efficiency aluminium finned (optional copper fins available), copper tube coils; coated fan guards, energy efficient thermally protected motors; and integral factory wired and tested control panel.

AIR COOLED DX SYSTEM @ 35° C (95° F) AMBIENT TEMPERATURE WITH OR WITHOUT HOT GAS REHEAT

| MODEL | AP.ECBE/V 02 | | AP.ECBE/V 03 | | AP.ECBE/V 04 | | AP.ECBE/V 05 | | AP.ECBE/V 07 | | AP.ECBE/V 09 | |
|--|---|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--|--------------|--|
| | AP.ECSE/V 02 | | AP.ECSE/V 03 | | AP.ECSE/V 04 | | AP.ECSE/V 05 | | AP.ECSE/V 07 | | AP.ECSE/V 09 | |
| Return Air 75F/62.5F/50% RH (24C/17C/50% RH) | Total Cooling Capacity | MBH (kW) | 27.5 (8.1) | 35.9 (10.5) | 47.7 (14.0) | 56.1 (16.4) | 83.5 (24.5) | 107.7 (31.6) | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 26.9 (7.9) | 33.0 (9.7) | 43.2 (12.7) | 51.6 (15.1) | 74.4 (21.8) | 102.3 (30.0) | | | | |
| | Sensible Heat Ratio (SHR) | | 0.98 | 0.92 | 0.91 | 0.92 | 0.90 | 0.95 | | | | |
| Return Air 72F/60F/50% RH (22C/16C/50% RH) | Total Cooling Capacity | MBH (kW) | 27.5 (8.1) | 33.3 (9.8) | 47.2 (13.8) | 55.6 (16.3) | 82.1 (24.1) | 107.0 (31.4) | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 26.8 (7.9) | 31.8 (9.3) | 42.8 (12.5) | 51.2 (15.0) | 74.1 (21.7) | 101.5 (29.7) | | | | |
| | Sensible Heat Ratio (SHR) | | 0.98 | 0.95 | 0.91 | 0.92 | 0.90 | 0.95 | | | | |
| COMPRESSOR | Number of Compressor(s) | | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| | Total Power Input (50Hz) | kW | 2.1 | 2.8 | 4.4 | 4.8 | 6.9 | 9.3 | | | | |
| | Total Power Input (60Hz) | kW | N/A | N/A | 4.5 | 5.1 | 6.9 | 8.7 | | | | |
| | Hot Gas; Liquid Lines, 50Hz | In | 1/2 ; 3/8 | 1/2 ; 3/8 | 1/2 ; 3/8 | 1/2 ; 3/8 | 7/8 ; 5/8 | 7/8 ; 5/8 | | | | |
| | Hot Gas; Liquid Lines, 60Hz | In | N/A | N/A | 1/2 ; 3/8 | 1/2 ; 3/8 | 1/2 ; 3/8 | 7/8 ; 5/8 | | | | |
| FAN & MOTOR (INDOOR) | Fan Size | | 10/8 | 10/8 | 10/8 | 10/8 | 15/15 | 15/15 | | | | |
| | Air Volume | CFM (m ³ /h) | 1,500 (2,548) | 1,500 (2,548) | 2,000 (3,398) | 2,500 (4,247) | 4,000 (6,796) | 5,000 (8,495) | | | | |
| | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.5 (125) | 0.5 (125) | | | | |
| | Motor (Standard Single Coil) | Hp (kW) | 1.0 (0.75) | 1.0 (0.75) | 1.0 (0.75) | 2.0 (1.5) | 2.0 (1.5) | 3.0 (2.2) | | | | |
| | Face Area | ft ² (m ²) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 12.2 (1.1) | 12.2 (1.1) | | | | |
| COIL (DX) | Face Velocity | FPM (m/s) | 270 (1.4) | 270 (1.4) | 360 (1.8) | 450 (2.3) | 327 (1.7) | 409 (2.1) | | | | |
| | Condensate Drain O.D | In | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | | | | |
| | Filters (ASHRAE 52.5 MERV 8) | Qty | 2 | 2 | 2 | 2 | N/A | N/A | | | | |
| REHEAT (Electric) | Capacity (max.) | MBH (kW) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 41.0 (12.0) | 41.0 (12.0) | | | | |
| | Power Input (max.) | kW | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | | | | |
| | Sound Pressure Level (at 2m distance, free field, downflow) | dBA | 56 | 56 | 57 | 57 | 62 | 63 | | | | |

PHYSICAL DATA

| Parameter | Unit | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
|-----------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
| Width | W | mm (inch) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 1464 (57.6) | 1464 (57.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | AP.ECBE | kg (lbs) | 251 (552) | 259 (570) | 260 (572) | 272 (598) | 420 (924) | 450 (990) |
| | AP.ECSE | kg (lbs) | 265 (583) | 273 (601) | 274 (603) | 286 (629) | 442 (972) | 472 (1038) |

Notes: 1.) Add 457mm (18inch) to height of unit for Discharge Plenum (optional) - Upflow Models only
2.) Add 32kg (71lbs)- Model 02 to 05; 51 kg(112 lbs)-Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only

PERFORMANCE AND TECHNICAL DATA (R410A)

AIR COOLED DX SYSTEM @ 35°C (95°F) AMBIENT TEMPERATURE
WITH OR WITHOUT HOT GAS REHEAT

| MODEL | | AP.ECBE/V 11 | | AP.ECBE/V 13 | | AP.ECBE/V 14 | | AP.ECBE/V 16 | | AP.ECBE/V 22 | | AP.ECBE/V 26 | |
|---|--------------------------------|--------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--|--------------|--|
| | | AP.ECSE/V 11 | | AP.ECSE/V 13 | | AP.ECSE/V 14 | | AP.ECSE/V 16 | | AP.ECSE/V 22 | | AP.ECSE/V 26 | |
| Return Air 75F/62.5F/50% RH (24C/17C/50% RH) | Total Cooling Capacity | MBH (kW) | 128.4 (37.6) | 151.5 (44.4) | 167.2 (49.0) | 202.1 (59.2) | 229.9 (67.4) | 261.7 (76.7) | 306.5 (89.8) | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 121.1 (35.5) | 134.5 (39.4) | 148.5 (43.5) | 178.3 (52.2) | 219.4 (64.3) | 233.7 (68.5) | 268.6 (78.7) | | | | |
| | Sensible Heat Ratio (SHR) | | 0.94 | 0.90 | 0.90 | 0.90 | 0.95 | 0.90 | 0.90 | | | | |
| Return Air 72F/60F/50% RH (22C/16C/50% RH) | Total Cooling Capacity | MBH (kW) | 119.8 (35.1) | 141.3 (41.4) | 164.5 (48.2) | 188.3 (55.2) | 227.8 (66.7) | 243.8 (71.4) | 286.4 (83.9) | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 116.5 (34.1) | 132.0 (38.7) | 147.9 (43.3) | 171.6 (50.3) | 218.0 (63.9) | 224.9 (65.9) | 262.6 (76.9) | | | | |
| | Sensible Heat Ratio (SHR) | | 0.97 | 0.93 | 0.90 | 0.91 | 0.96 | 0.92 | 0.92 | | | | |
| COMPRESSOR | Number of Compressor(s) | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | | | |
| | Total Power Input (50Hz) | kW | 10.5 | 11.6 | 13.9 | 16.2 | 18.6 | 20.5 | 24.0 | | | | |
| | Total Power Input (60Hz) | kW | 11.4 | 12.1 | 13.6 | 17.1 | 21.0 | 22.1 | 24.9 | | | | |
| | Hot Gas; Liquid Lines, 50Hz | In | 7/8 ; 5/8 | 7/8 ; 5/8 | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | | | | |
| | Hot Gas; Liquid Lines, 60Hz | In | 7/8 ; 5/8 | 7/8 ; 5/8 | 1/2(2) ; 3/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | 7/8(2) ; 5/8(2) | | | | |
| FAN & MOTOR (INDOOR) | Fan Size | | 15/15 | 15/15 | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | | | | |
| | Air Volume | CFM (m³/h) | 6,000 (10,194) | 6,500 (11,043) | 8,000 (13,592) | 10,000 (16,989) | 11,000 (18,688) | 11,000 (18,688) | 13,000 (22,086) | | | | |
| | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | | | | |
| | Motor (Standard Single Coil) | Hp (kW) | 4.0** (3.0) | 5.5** (4.0) | 4.0** (3.0) | 5.5** (4.0) | 7.5 (5.5) | 7.5 (5.5) | 10.0 (7.5) | | | | |
| COIL (DX) | Face Area | ft² (m²) | 12.2 (1.1) | 12.2 (1.1) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | | | | |
| | Face Velocity | FPM (m/s) | 491 (2.5) | 532 (2.7) | 335 (1.7) | 419 (2.1) | 461 (2.3) | 461 (2.3) | 544 (2.8) | | | | |
| | Condensate Drain O.D | In | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | | | | |
| FILTERS (ASHRAE 52.5 MERV 8) | 20" x 20" x 2" | Qty | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | |
| | 20" x 20" x 4" | Qty | 4 | 4 | 6 | 6 | 6 | 6 | 6 | | | | |
| | 20" x 25" x 4" | Qty | N/A | N/A | 2 | 2 | 2 | 2 | 2 | | | | |
| REHEAT (Electric) | 3-Stages (rated at 415V) | MBH (kW) | 41.0 (12.0) | 41.0 (12.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | | | | |
| STEAM HUMIDIFIER (OPTIONAL) | Capacity (max.) | lbs/hr (kg/hr) | 17 (8.0) | 17 (8.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | | | | |
| | Power Input (max.) | kW | 6.0 | 6.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | | | | |
| SOUND PRESSURE LEVEL (at 2m distance, free field, downflow) | | dBA | 66 | 70 | 65 | 65 | 66 | 69 | 73 | | | | |

** 5Hp (3.7 kW) for unit with ETL listed

PHYSICAL DATA

| | | | | | | | | | |
|--------|---------|-----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
| Width | W | mm (inch) | 1464 (57.6) | 1464 (57.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | AP.ECBE | kg (lbs) | 460 (1,012) | 474 (1,043) | 735 (1,617) | 754 (1,659) | 802 (1,764) | 823 (1,811) | 835 (1,837) |
| | AP.ECSE | kg (lbs) | 482 (1,060) | 496 (1,091) | 776 (1,707) | 795 (1,659) | 843 (1,765) | 864 (1,901) | 876 (1,927) |

Notes: 1.) Add 457mm (18inch) to height of unit for Discharge Plenum (optional) - Upflow Models only

2.) Add 32kg (71lbs)- Model 02 to 05; 51kg(112 lbs)-Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only .

PERFORMANCE AND TECHNICAL DATA (R407C)

AIR COOLED DX SYSTEM @ 35°C (95°F) AMBIENT TEMPERATURE
WITH OR WITHOUT HOT GAS REHEAT

| MODEL | | AP.ECBE/V 02 | | AP.ECBE/V 03 | | AP.ECBE/V 04 | | AP.ECBE/V 05 | | AP.ECBE/V 07 | | AP.ECBE/V 09 | |
|---|--------------------------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--------------|--|--------------|--|
| | | AP.ECSE/V 02 | | AP.ECSE/V 03 | | AP.ECSE/V 04 | | AP.ECSE/V 05 | | AP.ECSE/V 07 | | AP.ECSE/V 09 | |
| Return Air 75°F/62.5°F/50% RH (24°C/17°C/50% RH) | Total Cooling Capacity | MBH (kW) | 34.7 (10.2) | 38.8 (11.4) | 49.7 (14.6) | 58.2 (17.1) | 80.9 (23.7) | 119.3 (35.0) | | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 30.7 (9.0) | 35.1 (10.3) | 44.8 (13.1) | 53.8 (15.8) | 75.6 (22.1) | 109.8 (32.2) | | | | | |
| | Sensible Heat Ratio (SHR) | | 0.90 | 0.90 | 0.90 | 0.93 | 0.93 | 0.92 | | | | | |
| Return Air 72°F/60°F/50% RH (22°C/16°C/50% RH) | Total Cooling Capacity | MBH (kW) | 32.7 (9.6) | 36.3 (10.6) | 46.5 (13.6) | 54.6 (16.0) | 80.2 (23.5) | 118.3 (34.7) | | | | | |
| | Sensible Cooling Capacity | MBH (kW) | 30.0 (8.8) | 33.7 (9.9) | 43.8 (12.8) | 52.6 (15.4) | 75.3 (22.1) | 108.8 (31.9) | | | | | |
| | Sensible Heat Ratio (SHR) | | 0.92 | 0.93 | 0.94 | 0.96 | 0.94 | 0.92 | | | | | |
| Compressor | Number of Compressor(s) | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | Total Power Input (50Hz) | kW | 3.4 | 3.4 | 4.7 | 5.2 | 6.5 | 10.2 | | | | | |
| | Total Power Input (60Hz) | kW | N/A | N/A | 4.4 | 5.4 | 6.6 | 11.2 | | | | | |
| | Hot Gas; Liquid Lines, 50Hz | Inch | 5/8 ; 1/2 | 5/8 ; 1/2 | 5/8 ; 1/2 | 5/8 ; 1/2 | 7/8 ; 1/2 | 7/8 ; 5/8 | | | | | |
| | Hot Gas; Liquid Lines, 60Hz | Inch | N/A | N/A | 5/8 ; 1/2 | 5/8 ; 1/2 | 7/8 ; 1/2 | 7/8 ; 1/2 | | | | | |
| Fan & Motor (Indoor) | Fan Size | | 10/8 | 10/8 | 10/8 | 10/8 | 15/15 | 15/15 | | | | | |
| | Air Volume | CFM (m³/h) | 1,500 (2,548) | 1,500 (2,548) | 2,000 (3,398) | 2,500 (4,247) | 4,000 (6,796) | 5,000 (8,495) | | | | | |
| | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.5 (125) | 0.5 (125) | | | | | |
| | Motor (Standard Single Coil) | Hp (kW) | 1.0 (0.75) | 1.0 (0.75) | 1.0 (0.75) | 2.0 (1.5) | 2.0 (1.5) | 3.0 (2.2) | | | | | |
| Coil (DX) | Face Area | ft² (m²) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 12.2 (1.1) | 12.2 (1.1) | | | | | |
| | Face Velocity | FPM (m/s) | 270 (1.4) | 270 (1.4) | 360 (1.8) | 450 (2.3) | 327 (1.7) | 409 (2.1) | | | | | |
| | Condensate Drain O.D | Inch | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | | | | | |
| Filters (ASHRAE 52.5 MERV 8) | 20" x 20" x 2" | Qty | 2 | 2 | 2 | 2 | N/A | N/A | | | | | |
| | 20" x 20" x 4" | Qty | N/A | N/A | N/A | N/A | 4 | 4 | | | | | |
| | 20" x 25" x 4" | Qty | N/A | N/A | N/A | N/A | N/A | N/A | | | | | |
| Reheat (Electric) N/A for AP.ECSE/V Models | 3-Stages (rated at 415V) | MBH (kW) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 41.0 (12.0) | 41.0 (12.0) | | | | | |
| Steam Humidifier (Optional) | Capacity (max.) | lbs/hr (kg/hr) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) | | | | | |
| | Power Input (max.) | kW | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | | | | | |
| Sound Pressure Level (at 2m distance, free field, downflow) | | dBA | 56 | 56 | 57 | 57 | 62 | 63 | | | | | |

PHYSICAL DATA

| | | | | | | | | |
|--------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
| Width | W | mm (inch) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 1464 (57.6) | 1464 (57.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | AP.ECBE | kg (lbs) | 251 (552) | 259 (570) | 260 (572) | 272 (598) | 420 (924) | 450 (990) |
| | AP.ECSE | kg (lbs) | 265 (583) | 273 (601) | 274 (603) | 286 (629) | 442 (972) | 472 (1038) |

Notes: 1.) Add 457mm (18inch) to height of unit for Discharge Plenum (optional) - Upflow Models only

2.) Add 32kg (71lbs)- Model 02 to 05; 51kg(112 lbs)-Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only .

PERFORMANCE AND TECHNICAL DATA (R407C)

AIR COOLED DX SYSTEM @ 35oC (95oF) AMBIENT TEMPERATURE
WITH OR WITHOUT HOT GAS REHEAT

| MODEL | | AP.ECBE/V 11 AP.ECSE/V 11 | AP.ECBE/V 13 AP.ECSE/V 13 | AP.ECBE/V 14 AP.ECSE/V 14 | AP.ECBE/V 16 AP.ECSE/V 16 | AP.ECBE/V 22 AP.ECSE/V 22 | AP.ECBE/V 26 AP.ECSE/V 26 | | |
|---|--------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------------|-----------------|
| Return Air 75°F/62.5°F/50% RH (24°C/17°C/50% RH) | Total Cooling Capacity | MBH (kW) | 132.5 (38.8) | 154.8 (45.4) | 182.0 (53.3) | 203.1 (59.5) | 236.1 (69.2) | 262.2 (76.8) | 307.4 (90.1) |
| | Sensible Cooling Capacity | MBH (kW) | 124.7 (36.5) | 143.3 (42.0) | 161.2 (47.2) | 185.2 (54.3) | 222.7 (65.3) | 240.0 (70.3) | 276.8 (81.1) |
| | Sensible Heat Ratio (SHR) | | 0.94 | 0.93 | 0.90 | 0.91 | 0.94 | 0.92 | 0.90 |
| Return Air 72°F/60°F/50% RH (22°C/16°C/50% RH) | Total Cooling Capacity | MBH (kW) | 131.5 (38.5) | 145.2 (42.5) | 170.2 (49.9) | 201.2 (59.0) | 234.7 (68.8) | 260.1 (76.2) | 304.4 (89.2) |
| | Sensible Cooling Capacity | MBH (kW) | 125.5 (36.8) | 140.0 (41.0) | 155.2 (45.5) | 184.5 (54.1) | 221.2 (64.8) | 237.9 (69.7) | 278.6 (81.6) |
| | Sensible Heat Ratio (SHR) | | 0.95 | 0.96 | 0.91 | 0.92 | 0.94 | 0.91 | 0.92 |
| Compressor | Number of Compressor(s) | | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | Total Power Input (50Hz) | kW | 11.1 | 12.7 | 14.7 | 17.1 | 20.3 | 21.8 | 26.1 |
| | Total Power Input (60Hz) | kW | 12.3 | 13.0 | 16.3 | 17.9 | 22.2 | 24.2 | 26.9 |
| | Hot Gas; Liquid Lines, 50Hz | Inch | 7/8; 5/8 | 7/8; 5/8 | 7/8(2); 1/2(2) | 7/8(2); 1/2(2) | 7/8(2); 5/8(2) | 7/8(2); 5/8(2) | 7/8(2); 5/8(2) |
| | Hot Gas; Liquid Lines, 60Hz | Inch | 7/8; 5/8 | 7/8; 5/8 | 7/8(2); 1/2(2) | 7/8(2); 1/2(2) | 7/8(2); 5/8(2) | 7/8(2); 5/8(2) | 7/8(2); 5/8(2) |
| Fan & Motor (Indoor) | Fan Size | | 15/15 | 15/15 | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) |
| | Air Volume | CFM (m³/h) | 6,000 (10,194) | 6,500 (11,043) | 8,000 (13,592) | 10,000 (16,989) | 11,000 (18,688) | 11,000 (18,688) | 13,000 (22,086) |
| | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) |
| | Motor (Standard Single Coil) | Hp (kW) | 4.0 (3.0) | 5.5 (4.0) | 4.0 (3.0) | 5.5 (4.0) | 7.5 (5.5) | 7.5 (5.5) | 10.0 (7.5) |
| Coil (DX) | Face Area | ft² (m²) | 12.2 (1.1) | 12.2 (1.1) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) |
| | Face Velocity | FPM (m/s) | 491 (2.5) | 532 (2.7) | 335 (1.7) | 419 (2.1) | 461 (2.3) | 461 (2.3) | 544 (2.8) |
| | Condensate Drain O.D | Inch | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Filters (ASHRAE 52.5 MERV 8) | 20" x 20" x 2" | Qty | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 20" x 20" x 4" | Qty | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| | 20" x 25" x 4" | Qty | N/A | N/A | 2 | 2 | 2 | 2 | 2 |
| Reheat (Electric) N/A for AP.ECSE/V Models | 3-Stages (rated at 415V) | MBH (kW) | 41.0 (12.0) | 41.0 (12.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) |
| Steam Humidifier (Optional) | Capacity (max.) | lbs/hr (kg/hr) | 17 (8.0) | 17 (8.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) |
| | Power Input (max.) | kW | 6.0 | 6.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| Sound Pressure Level (at 2m distance, free field, downflow) | | dBA | 66 | 70 | 65 | 65 | 66 | 69 | 73 |

PHYSICAL DATA

| | | | | | | | | | |
|--------|---------|-----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
| Width | W | mm (inch) | 1464 (57.6) | 1464 (57.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | AP.ECBE | kg (lbs) | 460 (1,012) | 474 (1,043) | 735 (1,617) | 754 (1,659) | 802 (1,764) | 823 (1,811) | 835 (1,837) |
| | AP.ECSE | kg (lbs) | 482 (1,060) | 496 (1,091) | 776 (1,707) | 795 (1,659) | 843 (1,765) | 864 (1,901) | 876 (1,927) |

Notes: 1.) Add 457mm (18inch) to height of unit for Discharge Plenum (optional) – Upflow Models only
2.) Add 32kg (71lbs)- Model 02 to 05; 51kg(112 lbs)-Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only

PERFORMANCE AND TECHNICAL DATA

CHILLED WATER SYSTEM @ WATER SUPPLY/ RETURN 7°C/ 12°C [44.6°F/ 53.6°F]

| Model | | AP.ECDE/V 02 | AP.ECDE/V 03 | AP.ECDE/V 04 | AP.ECDE/V 05 | AP.ECDE/V 07 | AP.ECDE/V 09 | |
|---|--------------------------------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Return Air 75°F/62.5°F/50% RH (24°C/17°C/50% RH) | Total Cooling Capacity | MBH (kW) | 31.8 (9.3) | 43.0 (12.6) | 57.5 (16.9) | 67.9 (19.9) | 103.8 (30.4) | 132.3 (38.8) |
| | Sensible Cooling Capacity | MBH (kW) | 29.9 (8.8) | 37.1 (10.9) | 50.5 (14.8) | 61.0 (17.9) | 93.2 (27.3) | 118.6 (34.8) |
| | Sensible Heat Ratio (SHR) | | 0.94 | 0.86 | 0.88 | 0.90 | 0.90 | 0.90 |
| Return Air 72°F/60°F/50% RH (22°C/16°C/50% RH) | Water Flow Rate | GPM (m³/hr) | 7.3 (1.7) | 9.9 (2.2) | 13.2 (3.0) | 15.6 (3.5) | 23.8 (5.4) | 29.7 (6.7) |
| | Water Pressure Drop | PSI (kPa) | 2.3 (15.8) | 5.5 (38.0) | 2.1 (14.3) | 2.7 (18.8) | 2.7 (18.8) | 10.1 (69.6) |
| | Total Cooling Capacity | MBH (kW) | 26.8 (7.9) | 35.9 (10.5) | 48.1 (14.1) | 57.0 (16.7) | 86.9 (25.5) | 108.9 (31.9) |
| Return Air 72°F/60°F/50% RH (22°C/16°C/50% RH) | Sensible Cooling Capacity | MBH (kW) | 26.4 (7.7) | 32.5 (9.5) | 44.4 (13.0) | 53.8 (15.8) | 82.0 (24.0) | 107.8 (31.6) |
| | Sensible Heat Ratio (SHR) | | 0.99 | 0.91 | 0.92 | 0.94 | 0.94 | 0.99 |
| | Water Flow Rate | GPM (m³/hr) | 6.0 (1.4) | 8.0 (1.8) | 10.7 (2.4) | 12.7 (2.9) | 19.3 (4.4) | 24.2 (5.5) |
| Fan & Motor (Indoor) | Water Pressure Drop | PSI (kPa) | 1.6 (11.1) | 3.9 (26.6) | 1.4 (9.9) | 1.9 (13.2) | 1.9 (13.2) | 7.1 (49.0) |
| | Fan Size | | 10/8 | 10/8 | 10/8 | 10/8 | 15/15 | 15/15 |
| | Air Volume | CFM (m³/h) | 1,500 (2,548) | 1,500 (2,548) | 2,000 (3,398) | 2,500 (4,247) | 4,000 (6,796) | 5,000 (8,495) |
| Coil (Chilled Water) | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.3 (75) | 0.5 (125) | 0.5 (125) |
| | Motor | Hp (kW) | 1.0 (0.75) | 1.0 (0.75) | 1.0 (0.75) | 2.0 (1.5) | 2.0 (1.5) | 3.0 (2.2) |
| | Face Area | ft² (m²) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 5.6 (0.5) | 12.2 (1.1) | 12.2 (1.1) |
| Chilled Water Control | Face Velocity | FPM (m/s) | 270 (1.4) | 270 (1.4) | 360 (1.8) | 450 (2.3) | 327 (1.7) | 409 (2.1) |
| | Condensate Drain O.D | Inch | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Filters (ASHRAE 52.5 MERV 8) | 3-Way Modulating Valve, Size | DN, mm | 25 | 25 | 25 | 25 | 25 | 25 |
| | | Kv, m³/h | 10 | 10 | 10 | 10 | 10 | 10 |
| Reheat (Electric) | 20" x 20" x 2" | Qty | 2 | 2 | 2 | 2 | N/A | N/A |
| | 20" x 20" x 4" | Qty | N/A | N/A | N/A | N/A | 4 | 4 |
| | 20" x 25" x 4" | Qty | N/A | N/A | N/A | N/A | N/A | N/A |
| Steam Humidifier (Optional) | 3-Stages (rated at 415V) | MBH (kW) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 20.5 (6.0) | 41.0 (12.0) | 41.0 (12.0) |
| | Capacity (max.) | lbs/hr (kg/hr) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) | 17 (8.0) |
| Sound Pressure Level (at 2m distance, free field, downflow) | Power Input (max.) | kW | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | | dBA | 48 | 50 | 52 | 55 | 52 | 53 |

PHYSICAL DATA

| | | | | | | | | |
|--------|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
| Width | W | mm (inch) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 749 (29.5) | 1464 (57.6) | 1464 (57.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | | kg (lbs) | 205 (451) | 212 (466) | 219 (482) | 229 (504) | 365 (803) | 374 (823) |

Note: 1.) Add 457mm (18 inch) to height of unit for Discharge Plenum (optional) – Upflow Models only
2.) Add 32kg (71lbs)- Model 02 to 05; 51kg(112 lbs)- Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only

PERFORMANCE AND TECHNICAL DATA

CHILLED WATER SYSTEM @ WATER SUPPLY/ RETURN 7°C/ 12°C (44.6°F/ 53.6°F)

| Model | | AP.ECEE/V 11 | AP.ECEE/V 13 | AP.ECEE/V 14 | AP.ECEE/V 16 | AP.ECEE/V 19 | AP.ECEE/V 22 | AP.ECEE/V 26 | |
|--|---|------------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Return Air 75°F/62.5°F/50% RH (24°C/17°C/50% RH) | Total Cooling Capacity | MBH (kW) | 162.0 (47.5) | 179.7 (52.7) | 205.3 (60.2) | 240.5 (70.5) | 280.9 (82.3) | 319.0 (93.5) | 360.4 (105.6) |
| | Sensible Cooling Capacity | MBH (kW) | 145.3 (42.6) | 158.9 (46.6) | 184.9 (54.2) | 221.9 (65.0) | 255.5 (74.9) | 277.1 (81.2) | 318.1 (93.2) |
| | Sensible Heat Ratio (SHR) | | 0.90 | 0.88 | 0.90 | 0.92 | 0.91 | 0.87 | 0.88 |
| | Water Flow Rate | GPM (m³/hr) | 37.2 (8.4) | 41.2 (9.4) | 47.1 (10.7) | 55.1 (12.5) | 64.4 (14.6) | 73.2 (16.6) | 82.7 (18.8) |
| | Water Pressure Drop | PSI (kPa) | 4.1 (28.4) | 8.4 (57.7) | 2.3 (15.5) | 3.0 (20.6) | 2.7 (18.5) | 6.5 (45.1) | 8.1 (55.6) |
| | Return Air 72°F/60°F/50% RH (22°C/16°C/50% RH) | Total Cooling Capacity | MBH (kW) | 136.1 (39.9) | 151.1 (44.3) | 172.2 (50.5) | 202.5 (59.3) | 236.4 (69.3) | 267.6 (78.4) |
| Sensible Cooling Capacity | | MBH (kW) | 128.4 (37.6) | 140.2 (41.1) | 163.4 (47.9) | 196.3 (57.5) | 225.8 (66.2) | 243.6 (71.4) | 280.0 (82.0) |
| Sensible Heat Ratio (SHR) | | | 0.94 | 0.93 | 0.95 | 0.97 | 0.96 | 0.91 | 0.92 |
| Water Flow Rate | | GPM (m³/hr) | 30.3 (6.9) | 33.6 (7.6) | 38.3 (8.7) | 45.1 (10.2) | 52.6 (11.9) | 59.5 (13.5) | 67.4 (15.3) |
| Water Pressure Drop | | PSI (kPa) | 2.9 (19.7) | 5.9 (40.7) | 1.6 (11.1) | 2.1 (14.3) | 1.9 (12.9) | 4.6 (31.7) | 5.7 (39.2) |
| Fan & Motor (Indoor) | | Fan Size | | 15/15 | 15/15 | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) | 15/15 (Twin) |
| | Air Volume | CFM (m³/h) | 6,000 (10,194) | 6,500 (11,043) | 8,000 (13,592) | 10,000 (16,989) | 11,000 (18,688) | 11,000 (18,688) | 13,000 (22,086) |
| | External Static Pressure (ESP) | in H ₂ O (Pa) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) | 0.5 (125) |
| | Motor | Hp (kW) | 4.0** (3.0) | 5.5** (4.0) | 4.0** (3.0) | 5.5** (4.0) | 7.5 (5.5) | 7.5 (5.5) | 10.0 (7.5) |
| Coil (Chilled Water) | Face Area | ft² (m²) | 12.2 (1.1) | 12.2 (1.1) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) | 23.9 (2.2) |
| | Face Velocity | FPM (m/s) | 491 (2.5) | 532 (2.7) | 335 (1.7) | 419 (2.1) | 461 (2.3) | 461 (2.3) | 544 (2.8) |
| | Condensate Drain O.D | Inch | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| | Chilled Water Control | 3-Way Modulating Valve, Size | DN, mm | 40 | 40 | 40 | 40 | 40 | 50 |
| Kv, m³/h | | | 16 | 16 | 16 | 16 | 16 | 25 | 25 |
| Filters (ASHRAE 52.5 MERV 8) | 20" x 20" x 2" | Qty | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 20" x 20" x 4" | Qty | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| | 20" x 25" x 4" | Qty | N/A | N/A | 2 | 2 | 2 | 2 | 2 |
| Reheat (Electric) | 3-Stages (rated at 415V) | MBH (kW) | 41.0 (12.0) | 41.0 (12.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) | 61.4 (18.0) |
| Steam Humidifier (Optional) | Capacity (max.) | lbs/hr (kg/hr) | 17 (8.0) | 17 (8.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) | 33 (15.0) |
| | Power Input (max.) | kW | 6.0 | 6.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| Sound Pressure Level (at 2m distance, free field, downflow) | | dBA | 57 | 58 | 52 | 58 | 59 | 60 | 64 |

** 5Hp (3.7 kW) for unit with ETL listed

PHYSICAL DATA

| Height | H | mm (inch) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) | 1944 (76.5) |
|--------|---|-----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Width | W | mm (inch) | 1464 (57.6) | 1464 (57.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) | 2554 (100.6) |
| Depth | D | mm (inch) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) | 874 (34.4) |
| Weight | | kg (lbs) | 398 (876) | 410 (902) | 602 (1,324) | 615 (1,353) | 665 (1,463) | 678 (1,492) | 688 (1,514) |

Note: 1.) Add 457mm (18 inch) to height of unit for Discharge Plenum (optional) – Upflow Models only
2.) Add 32kg (71lbs)- Model 02 to 05; 51kg(112 lbs)- Model 07 to 13; 80kg(176 lbs)- Model 14 to 26 to weight of unit for Discharge Plenum (optional)- Upflow Model only

DUAL COILS OPTION

AIR COOLED DX & CHILLED WATER SYSTEMS

This system is a combination of the both Direct Expansion (DX) and Chilled Water (CW) system with 2 cooling coil. Cooling capacity and other parameters for DX and CW System are as per stated on respective tables; except for the following.

| Model | | AP.ECEE/V02 | AP.ECEE/V03 | AP.ECEE/V04 | AP.ECEE/V05 | AP.ECEE/V07 | AP.ECEE/V09 |
|--|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fan Motor (Indoor) | hp (kW) | 1.0 (0.75) | 1.0 (0.75) | 1.5 (1.1) | 2.0 (1.5) | 2.0 (1.5) | 4.0** (3.0) |
| Sound Pressure Level (at 2m distance, free field, downflow) | dBA | 56 | 56 | 57 | 57 | 62 | 63 |
| Weight | kg (lbs) | 270 (594) | 284 (625) | 292 (642) | 304 (669) | 467 (1,027) | 497 (1,093) |

| Model | | AP.ECEE/V11 | AP.ECEE/V13 | AP.ECEE/V14 | AP.ECEE/V16 | AP.ECEE/V19 | AP.ECEE/V22 | AP.ECEE/V26 |
|--|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fan Motor (Indoor) | hp (kW) | 5.5** (4.0) | 5.5** (4.0) | 4.0** (3.0) | 7.5 (5.5) | 7.5 (5.5) | 10.0 (7.5) | N/A |
| Sound Pressure Level (at 2m distance, free field, downflow) | dBA | 66 | 70 | 65 | 65 | 66 | 69 | |
| Weight | kg (lbs) | 523 (1,151) | 537 (1,181) | 823 (1,811) | 842 (1,852) | 909 (2,000) | 941 (2,070) | |

Notes: 1.) Add 457mm (18inch) to height of unit for Discharge Plenum (optional) – Upflow Models only
2.) Add 32kg (71 lbs)- Model 02 to 05; 51kg(112 lbs)-Model 07 to 13; 80kg(176 lbs)- Model 14 to 22 to weight of unit for Discharge Plenum (optional)- Upflow Model only
** 5Hp (3.7 kW) for unit with ETL listed

CONDENSER SELECTION

Selections are to be based on standard airflow rate and return air temperature of 24°C / 17°C (75°F / 62.5°F) or lesser at sea level.

| Model | DX-System | AP.ECBE/V 02 | AP.ECBE/V 03 | AP.ECBE/V 04 | AP.ECBE/V 05 | AP.ECBE/V 07 | AP.ECBE/V 09 |
|---------------------------------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Dual Coils System | AP.ECEE/V02 | AP.ECEE/V03 | AP.ECEE/V04 | AP.ECEE/V05 | AP.ECEE/V07 | AP.ECEE/V09 |
| | DX-System with Hot Gas Reheat | AP.ECSE/V 02 | AP.ECSE/V 03 | AP.ECSE/V 04 | AP.ECSE/V 05 | AP.ECSE/V 07 | AP.ECSE/V 09 |
| Total Heat Rejection (Nominal) | MBH (kW) | 46 (14) | 51 (15) | 60 (18) | 73 (21) | 101 (30) | 151 (44) |
| 35°C (95°F) Ambient | - | AP.ECSD04 | AP.ECSD04 | AP.ECSD04 | AP.ECSD06 | AP.ECSD08 | AP.ECSD10 |
| 37.8°C (100°F) Ambient | - | AP.ECSD04 | AP.ECSD04 | AP.ECSD06 | AP.ECSD06 | AP.ECSD08 | AP.ECSD13 |
| 40.6°C (105°F) Ambient | - | AP.ECSD04 | AP.ECSD06 | AP.ECSD06 | AP.ECSD08 | AP.ECSD11 | AP.ECSD17 |
| 43°C (110°F) Ambient | See Note 1 | AP.ECSD06 | AP.ECSD06 | AP.ECSD08 | AP.ECSD11 | AP.ECSD17 | AP.ECSD20 |
| 46°C (115°F) Ambient | See Note 1 | AP.ECSD08 | AP.ECSD11 | AP.ECSD17 | AP.ECSD17 | AP.ECSD26 | AP.ECSD34 |
| 49°C (120°F) Ambient | See Note 2 | AP.ECSD11 | AP.ECSD11 | AP.ECSD17 | AP.ECSD20 | AP.ECSD26 | AP.ECSD34 |
| 52°C (125°F) Ambient | See Note 3 | AP.ECSD13 | AP.ECSD13 | AP.ECSD20 | AP.ECSD26 | AP.ECSD30 | AP.ECSD40 |

| Model | DX-System | AP.ECBE/V 11 | AP.ECBE/V 13 | AP.ECBE/V 14 | AP.ECBE/V 16 | AP.ECBE/V 19 | AP.ECBE/V 22 | AP.ECBE/V 26 |
|---------------------------------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Dual Coils System | AP.ECEE/V11 | AP.ECEE/V13 | AP.ECEE/V14 | AP.ECEE/V16 | AP.ECEE/V19 | AP.ECEE/V22 | N/A |
| | DX-System with Hot Gas Reheat | AP.ECSE/V 11 | AP.ECSE/V 13 | AP.ECSE/V 14 | AP.ECSE/V 16 | AP.ECSE/V 19 | AP.ECSE/V 22 | AP.ECSE/V 26 |
| Total Heat Rejection (Nominal) | MBH (kW) | 171 (50) | 193 (57) | 220 (64) | 262 (77) | 293 (86) | 332 (97) | 388 (114) |
| 35°C (95°F) Ambient | - | AP.ECSD13 | AP.ECSD17 | AP.ECSD17 | AP.ECSD20 | AP.ECSD20 | AP.ECSD26 | AP.ECSD30 |
| 37.8°C (100°F) Ambient | - | AP.ECSD17 | AP.ECSD17 | AP.ECSD20 | AP.ECSD26 | AP.ECSD26 | AP.ECSD30 | AP.ECSD30 |
| 40.6°C (105°F) Ambient | - | AP.ECSD20 | AP.ECSD26 | AP.ECSD26 | AP.ECSD26 | AP.ECSD34 | AP.ECSD34 | AP.ECSD34 |
| 43°C (110°F) Ambient | See Note 1 | AP.ECSD26 | AP.ECSD30 | AP.ECSD34 | AP.ECSD40 | AP.ECSD44 | AP.ECSD44 | AP.ECSD44 |
| 46°C (115°F) Ambient | See Note 1 | AP.ECSD40 | AP.ECSD44 | AP.ECSD44 | AP.ECSD30x2 | AP.ECSD30x2 | AP.ECSD40x2 | AP.ECSD40x2 |
| 49°C (120°F) Ambient | See Note 2 | AP.ECSD40 | AP.ECSD44 | AP.ECSD44 | AP.ECSD30x2 | AP.ECSD34x2 | AP.ECSD40x2 | AP.ECSD44x2 |
| 52°C (125°F) Ambient | See Note 3 | AP.ECSD44 | AP.ECSD44 | AP.ECSD26x2 | AP.ECSD30x2 | AP.ECSD34x2 | AP.ECSD44x2 | AP.ECSD44x2 |

Notes: 1.) Multiply Total Compressor Power Input by 1.05
2.) Multiply Cooling Capacity by 0.9. Multiply Total Compressor Power Input by 1.1
3.) Multiply Cooling Capacity by 0.9. Multiply Total Compressor Power Input by 1.2