



Cooling Capacity
(setpoint 20°C,
ambient 20°C)

8W

16W

24kW

Physical attributes

Physical dimensions LxWxH (mm)	W980 x D680 x H1480mm (TE CHB case)	W1022 x D710 x H1003mm (TE CHB case)	W985 x D895 x H1580mm (TE CHF case)
Construction	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors Epoxy polyester powder coat Zintec panels	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors Epoxy polyester powder coat Zintec panels	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors Epoxy polyester powder coat Zintec panels
Dry Weight (kg)	199kg	254kg	370kg
Noise level (dB(A))	59dB @ 5m	60dB @ 5m	69dB @ 5m
Acceptable Environment	Indoor or outdoor sheltered	Indoor or outdoor sheltered	Indoor or outdoor sheltered
Enclosure IP rating	IP11 Solids greater than 50mm Liquids vertical falling water	IP11 Solids greater than 50mm Liquids vertical falling water	IP11 Solids greater than 50mm Liquids vertical falling water
Components IP rating	IP54 Protected against harmful dust Protected against water sprays	IP54 Protected against harmful dust Protected against water sprays	IP54 Protected against harmful dust Protected against water sprays
Toolless access	No	No	No
Serviceability	Rotolock on comp. and liq. reciever	Rotolock on comp. and liq. receiver	Rotolock on comp. and liq. reciever

Temperature control attributes

Cooling Technology	Vapour Compresion	Vapour Compresion	Vapour Compresion
Evaporator Technology	PHE	PHE	PHE
Duty at +20°C ambient, setpoint +20°C	8kW	16kW	24kW
Refigerant & Charge	R407C	R407C	R407C
Temperature range (standard)	+5°C to +25°C	+5°C to +25°C	+5°C to +25°C
Control method	Compressor on/off	Compressor on/off	Compressor on/off
Temperature stability (with constant load)	±1°C	±1°C	±1°C
Temperature resolution	0.1°C	0.1°C	-
Maximum THR (Total Heat Rejection)	12kW	21kW	31kW
Cooling fan airflow	0.6m3/sec	1.5m3/sec	2.1m3/sec
Cold start compressor support	Crankcase heater	Crankcase heater	Crankcase heater

Water circuit attributes

Tank	70L	90L	180L
Sight glass level gauge	Yes	Yes	Yes
Drain Facility	Yes	Yes	Yes
Connection size	1" BSPPF	1" BSPPF	1-1/2" BSPPF
Pump type and capability	10L/min @ 6bar (PD) 17L/min @ 6bar (PD) 25L/min @ 4bar (CF) (MXH205)	17L/min @ 6bar (PD) 25L/min @ 4bar (CF) 40L/min @ 4bar (CF) (MXH206-60Hz, MXH204-60Hz)	40L/min Rotary vane (CF) (MXH206-50Hz, MXH204-60Hz) 80L/min @ 4bar (CF)
Pressure control (settable pressure relief valve)	4 bar G. against closed valve Excess water passed back to the tank via pressure by-pass valve.	4 bar G. against closed valve Excess water passed back to the tank via pressure by-pass valve.	4 bar G. against closed valve Excess water passed back to the tank via pressure by-pass valve.
Standard chemical compatibility	Water or water/glycol below +8°C DI in development	Water or water/glycol below +8°C DI in development	Water or water/glycol below +8°C DI in development

Electrical attributes

(400Vac, 3, 50Hz) 3-spec	Yes, 7.8A	Yes, 12.4A	Yes, 17.1A
(460Vac, 3, 60Hz) 4-spec	Yes	Yes	Yes

Safety and fault indicator

Temperature out of range digital readout	Standard	Standard	Standard
Compressor HP Switch	Standard	Standard	Standard
Magnetic current trip & thermal overload	Standard	Standard	Standard
Supply on indicator lamp	Standard	Standard	Standard
Water low indicator lamp	Standard	Standard	Standard
Pump fault indicator lamp	Standard	Standard	Standard
Refrigeration fault indicator lamp	Standard	Standard	Standard
Over/under pressure cut-outs	Standard	Standard	Standard
Coolant under temperature switch	Standard	Standard	Standard
Low pump flow switch	Standard	Standard	Standard
Low coolant level switch	Standard	Standard	Standard

Options available

Onboard RS485 data protocol; SA00011	Available	Available	Available
Standard VFC set; SA000012	Available	Available	Available
Castors to replace rubber feet; SA00015	Available	Available	Available
Stainless enclosure; SA00029	Available	Available	Available
De-branding of standard model; SA00030	Available	Available	Available
Frost Protection; SA00041	Available	Available	Available
External manifold (2-way); SA00042	Available	Available	Available
External manifold (3-way); SA00043	Available	Available	Available
External manifold (4-way); SA00044	Available	Available	Available
External manifold (5-way); SA00045	Available	Available	Available
External manifold (6-way); SA00046	Available	Available	Available
External manifold (7-way); SA00047	Available	Available	Available

External manifold (8-way); SA00048	Available	Available	Available
External manifold (9-way); SA00049	Available	Available	Available
External manifold (10-way); SA00050	Available	Available	Available
Remote stop-start; SA00051	Available TE 22-016	Available TE 22-016	Available TE 22-016
Auto Refill; SA00052	Available TE 22-015	Available TE 22-015	Available TE 22-015
Filter on outlet/inlet (Assembled on Customers side)	Yes	Yes	Yes

Cooling Capacity (setpoint 20°C, ambient 20°C)

32W

40W

Physical attributes

Physical dimensions LxWxH (mm)	W1180 x D1000 x H1733mm (TE CHF case)	W1180 x D1180 x H1933mm (TE CHG case)
Construction	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors Epoxy polyester powder coat Zintec panels	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors Epoxy polyester powder coat Zintec panels
Dry Weight (kg)	450kg	500kg
Noise level (dB(A))	58dB @ 5m	58dB @ 5m
Acceptable Environment	Indoor or outdoor sheltered	Indoor or outdoor sheltered
Enclosure IP rating	IP11 Solids greater than 50mm Liquids vertical falling water	IP11 Solids greater than 50mm Liquids vertical falling water
Components IP rating	IP54 Protected against harmful dust Protected against water sprays	IP54 Protected against harmful dust Protected against water sprays
Toolless access	No	No
Serviceability	Rotolock on comp. and liq. receiver	Rotolock on comp. and liq. receiver

Temperature control attributes

Cooling Technology	Vapour Compression	Vapour Compression
Evaporator Technology	PHE	PHE
Duty at +20°C ambient, setpoint +20°C	32kW	40kW
Refrigerant & Charge	R407C	R407C
Temperature range (standard)	+5°C to +25°C	+5°C to +25°C
Control method	Compressor on/off	Compressor on/off
Temperature stability (with constant load)	±1°C	±1°C
Temperature resolution	0.1°C	0.1°C
Maximum THR (Total Heat Rejection)	55kW	59kW
Cooling fan airflow	2.4m ³ /sec	2.5m ³ /sec
Cold start compressor support	Crankcase heater	Crankcase heater

Water circuit attributes

Tank	250L	250L
Sight glass level gauge	Yes	Yes
Drain Facility	Yes	Yes
Connection size	1-1/2" BSPPF	1-1/2" BSPPF
Pump type and capability	40L/min @ 4bar (CF) 80L/min @ 4bar (CF)(MXH406)	80L/min @ 4bar (CF) 120L/min @ 4bar (CF)
Pressure control (settable pressure relief valve)	4 bar G. against closed valve Excess water passed back to the tank via pressure by-pass valve.	4 bar G. against closed valve Excess water passed back to the tank via pressure by-pass valve.
Standard chemical compatibility	Water or water/glycol below +8°C DI in development	Water or water/glycol below +8°C DI in development

Electrical attributes

(400Vac, 3, 50Hz) 3-spec	Yes, 25.8A	Yes, 27.2A
(460Vac, 3, 60Hz) 4-spec	Yes	Yes

Safety and fault indicator

Temperature out of range digital readout	Standard	Standard
Compressor HP Switch	Standard	Standard
Magnetic current trip & thermal overload	Standard	Standard
Supply on indicator lamp	Standard	Standard
Water low indicator lamp	Standard	Standard
Pump fault indicator lamp	Standard	Standard
Refrigeration fault indicator lamp	Standard	Standard
Over/under pressure cut-outs	Standard	Standard
Coolant under temperature switch	Standard	Standard
Low pump flow switch	Standard	Standard
Low coolant level switch	Standard	Standard

Options available

Onboard RS485 data protocol; SA00011	Available	Available
Standard VFC set; SA000012	Available	Available
Castors to replace rubber feet; SA00015	Available	Available
Stainless enclosure; SA00029	Available	Available
De-branding of standard model; SA00030	Available	Available
Frost Protection; SA00041	Available	Yes

External manifold (2-way); SA00042	Available	-
External manifold (3-way); SA00043	Available	-
External manifold (4-way); SA00044	Available	-
External manifold (5-way); SA00045	Available	-
External manifold (6-way); SA00046	Available	-
External manifold (7-way); SA00047	Available	-
External manifold (8-way); SA00048	Available	-
External manifold (9-way); SA00049	Available	-
External manifold (10-way); SA00050	Available	-
Remote stop-start; SA00051	Available TE 22-016	Available TE 22-016
Auto Refill;SA00052	Available TE 22-015	Available TE 22-015
Filter on outlet/inlet (Assembled on Customers side)	Yes	Yes