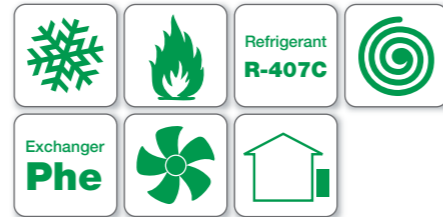




Cooling capacity: 47,1 kW ÷ 145 kW
 Heating capacity: 55,1 kW ÷ 158 kW



GENERAL CHARACTERISTICS

- Scroll Compressor
- Evaporator made of brazed stainless steel plates, with double circuit; electrical heater to prevent freezing; insulation made of closed cells material; threaded water connections
- R407C refrigerant
- Finned coils with copper tubes mechanically expanded in aluminium fins
- Axial fans
- Panels and frame made of electro-galvanized steel polyester powder painted
- Control by microprocessor compatible with Smart manager system to manage McQuay hydronic systems

STANDARD OPTIONS

- Phase monitor
- Fan thermal overload relays
- Compressor thermal overload relays
- Condenser coil guards
- Compressor guards
- Water differential pressure switch
- High and low pressure manometers
- Anti vibration-mounts

OPTIONS ON REQUEST

- Low ambient temperature kit
- 2 pumps hydronic kit
- Inertial tank

TECHNICAL DATA McSmart - heat pump

McSmart		160CR	190CR	210CR	240CR	320CR	400CR	500CR
Cooling Capacity ¹	kW	47,1	52,9	63,6	75,6	96,0	113	145
Unit power input ¹	kW	18,3	20,1	23,4	27,1	35,5	41,0	50,7
EER	--	2,57	2,63	2,72	2,79	2,70	2,75	2,85
ESEER	--	3,51	3,61	3,76	3,90	3,59	3,66	3,97
Heating Capacity ²	kW	55,1	57,1	67,2	81,8	110	118	158
Unit power input ²	kW	19,5	20,7	26,6	28,5	38,1	45,4	57,3
COP	--	2,83	2,76	2,53	2,87	2,90	2,60	2,75
Sound Pressure ³	--	65,8	67,0	67,2	66,9	71,0	71,0	72,0
Compressor	Type	Semi-hermetic single screw compressor						
Quantity	No.	2	2	2	2	4	4	4
Minimum capacity	%	50	50	50	50	25	25	25
Refrigerant	Type	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
N. of circuits	No.	2	2	1	1	2	2	2
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler						
Fan	Type	Direct propell						
Quantity	No.	2	2	2	2	2	4	4
Motor input	kW	0,72	0,72	0,72	0,72	1,9	0,72	0,72
Speed	rpm	715	715	715	715	715	715	715
Diameter	mm	710	710	800	800	800	800	800
Water heat exchanger	Type	Plate						
Water volume	l	8,0	9,5	10,0	12,8	12,3	18,0	25,5
Nominal Water pressure drop	kPa	31	23	30	31	44	48	75
Piping connections	"	Rc 1 1/2	Rc 1 1/2	Rc 1 1/2	Rc 1 1/2	Rc 2	Rc 2	Rc 2
Standard voltage	V/ph/Hz	400V / 3ph / 50Hz						

NOTES:

- (1) 12/7°C evaporator water temperature; 35°C ambient temperature
- (2) 40/45°C condenser water temperature; 7°C DB ambient temperature
- (3) At 1 m, according to ISO 3744, at free field semispherical conditions

Weight and dimensions		160CR	190CR	210CR	240CR	320CR	400CR	500CR
Shipping weight	kg	650 (674)	676 (676)	885 (920)	928 (963)	1206 (1241)	1583 (1620)	1988 (2154)
Operating weight	kg	663 (687)	691 (715)	906 (941)	964 (999)	1226 (1261)	1611 (1648)	2024 (2190)
(A) Length	mm	1820	1820	2056	2056	2750	2750	2750
(B) Width	mm	1000	1000	1153	1153	1100	2200	2200
(C) Height	mm	1935	1985	2185	2185	2180	2180	2180

() units with pumps hydronic kit

