

MCU+ & MHPUL Outdoor Units

MCU+ and MHPUL outdoor units are designed to complement the Marstair range of split system air-handling units, but are equally suited for use in a wide variety of ventilation and air-conditioning applications.

Suitable for wall mounting or free standing, these stylish and efficient outdoor units incorporate the latest technology to deliver low sound levels.

Standard Features

- Easy access for installation and service
- Suction and liquid service valves
- Fan speed head pressure control
- Expansion device (orifice)
- Low ambient start timer
- Three minute start delay/random start timer
- Crankcase heater (reciprocating only)
- Contactor



- LP switch auto
- HP switch (auto)
- Factory charged with R407C refrigerant
- Up to 80m pipe runs (equivalent length including 20m lift available) (Models 15-20 up to 50m)

Options

- CSR 1 phase
- PTC 1 phase
- Overload 1 phase (standard on 3 ph)
- Wall mounting kits
- Volt free relay / HP Switch (with alarm output)
- Isolator
- Compressor jacket
- Noise attenuation kit



Technical Information

COOLING CAPACITIES & POWER INPUT (Kw)		
Model	Capacity	Power Input
MCU+ 15 / MHPUL 15	2.46	0.84
MCU+ 20 / MHPUL 20	2.84	0.97
MCU+ 30 / MHPUL 30	3.68	1.26
MCU+ 40 / MHPUL 40	4.17	1.41
MCU+ 50 / MHPUL 50	5.75	2.49
MCU+ 60 / MHPUL 60	7.01	2.95
MCU+ 80 / MHPUL 80	7.38	2.95
MCU+ 90 / MHPUL 90	8.23	3.72
MCU+ 100 / MHPUL 100	10.91	4.31
MCU+ 130 / MHPUL 130	12.41	4.56
MCU+ 150 / MHPUL 150	13.77	5.47
MCU+ 165 / MHPUL 165	14.67	6.08
MCU+ 180 / MHPUL 180	17.12	6.56
MCU+ 200	19.88	7.74

HEATING CAPACITIES & POWER INPUT (Kw)		
Model	Capacity	Power Input
MHPUL 15	2.70	1.31
MHPUL 20	3.00	1.56
MHPUL 30	3.90	1.88
MHPUL 40	4.40	2.27
MHPUL 50	6.00	2.47
MHPUL 60	7.20	2.94
MHPUL 80	7.60	3.1
MHPUL 90	8.40	3.43
MHPUL 100	11.10	4.53
MHPUL 130	12.60	5.15
MHPUL 150	13.98	5.71
MHPUL 165	14.90	6.08
MHPUL 180	17.30	7.06

Nominal capacities quoted at 7.5°C saturated suction temperature and 35°C ambient.

SPECIFICATION DETAILS - MCU+														
Model	R407C Compressor 1 Phase (230 volts 50Hz)			R407C Compressor 3 Phase (400 volts 50Hz)				Condenser fan 1 Phase (230 volts 50Hz)					Connection sizes	
	Power (nominal) kW	Starting current LRA Amps	Nominal current FLA Amps	Power (nominal) kW	Starting current LRA A/Ph	Nominal current FLA A/Ph	R407C Charge Supplied g	Airflow (high speed) m3/s	Fan motor FLA kW	Nominal Current	Fans:- No. x dia No. x mm	Fans:- High Speed r.p.m.	Suction Ins odf	Liquid Ins odf
MCU+ 15	1.1	23	5.9	-	-	-	660	0.813	0.13	0.6	1 x 457	760	3/8	3/8
MCU+ 20	1.6	28	6.9	-	-	-	1030	0.813	0.13	0.6	1 x 457	760	3/8	3/8
MCU+ 30	1.6	36	8.1	1.6	18	3.6	1000	0.813	0.13	0.6	1 x 457	760	1/2	3/8
MCU+ 40	2.1	50	10.2	2.0	22	4.8	1240	0.723	0.13	0.6	1 x 457	760	1/2	3/8
MCU+ 50	2.0	58	8.9	1.9	26	4.2	1690	0.723	0.13	0.6	1 x 457	910	1/2	3/8
MCU+ 60	2.4	61	9.8	2.4	32	4.2	2000	0.723	0.13	0.6	1 x 457	910	5/8	3/8
MCU+ 80	3.0	76	11.5	3.0	40	4.9	1880	0.723	0.13	0.6	1 x 457	910	5/8	1/2
MCU+ 90	4.2	114	16.9	4.1	48	7.1	2060	1.140	0.24	1.0	1 x 508	950	5/8	1/2
MCU+ 100	-	-	-	4.3	51	7.2	2520	1.140	0.24	1.0	1 x 508	950	3/4	1/2
MCU+ 130	-	-	-	4.4	62	7.7	4170	1.740	2x0.13	2x0.60	2 x 457	910	3/4	1/2
MCU+ 150	-	-	-	5.3	68	8.7	4170	1.740	2x0.13	2x0.60	2 x 457	910	3/4	1/2
MCU+ 165	-	-	-	6.0	71	9.5	4540	1.740	2x0.13	2x0.60	2 x 457	910	3/4	1/2
MCU+ 180	-	-	-	7.0	71	11.9	4640	2.407	2x0.24	2x1.00	2 x 508	950	7/8	1/2
MCU+ 200	-	-	-	9.4	98	16.9	5480	2.407	2x0.24	2x1.00	2 x 508	950	7/8	1/2

For MHPUL specification details please contact TEV Ltd.

SOUND PRESSURE LEVELS		
MCU+ & MHPUL 550 & 551 series		
Model	HIGH dBA	LOW dBA
MCU+ 15 / MHPUL 15	49	44
MCU+ 20 / MHPUL 20	49	44
MCU+ 30 / MHPUL 30	50	44
MCU+ 40	49	44
MHPUL 40	48	46
MCU+ 50 / MHPUL 50	49	47
MCU+ 60	50	49
MHPUL 60	49	45
MCU+ 80	49	47
MHPUL 80	52	47
MCU+ 90 / MHPUL 90	52	47
MCU+ 100	53	50
MHPUL 100	51	46
MCU+ 130 / MHPUL 130	52	50
MCU+ 150	57	53
MCU+ 165	57	53
MHPUL 165	57	52
MCU+ 180 / MHPUL 180	59	54
MCU+ 200	62	56

Sound pressure levels measured at 3m distance from unit in anechoic conditions

Dimensions and Weights

DIMENSIONS & WEIGHTS					
Model	Width mm	Depth mm	Height mm	Weight kg	
				1Ph	3Ph
MCU+ 15 / MHPUL 15	900	300	560	45	-
MCU+ 20 / MHPUL 20	900	300	560	46	-
MCU+ 30 / MHPUL 30	900	300	560	48	48
MCU+ 40	900	300	560	53	53
MCU+ 50 / MHPUL 40	1000	300	660	64	62
MCU+ 60 / MHPUL 50	1000	300	660	65	63
MCU+ 80 / MHPUL 60	1000	300	660	6	64
MCU+ 90 / MHPUL 80	1000	350	760	76	73
MCU+ 100 / MHPUL 90	1000	350	760	-	81
MCU+ 130 / MHPUL 100	1000	425	1020	-	101
MCU+ 150 / MHPUL 130	1000	425	1020	-	103
MCU+ 165 / MHPUL 150	1000	425	1020	-	103
MCU+ 180 / MHPUL 165	1100	425	1215	-	118
MCU+ 200 / MHPUL 180	1100	425	1215	-	173

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For full design or technical information on all systems, please refer to the relevant technical manual or contact TEV technical department.
 We reserve the right to alter designs and specifications at any time without notification.

Part No:06617489-10



Certificate No. EMS 91502



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