

marstair

DCU+ & DHPUL(E) ducted outdoor units



THE DCU+ AND DHPUL(E) ARE OUTDOOR UNITS FITTED WITH CENTRIFUGAL FANS AND DESIGNED FOR SITING INDOORS WITH OUTDOOR AIR BEING DUCTED INTO AND OUT OF THE BUILDING

The units are particularly suited to visually sensitive applications or where local planning regulations do not allow equipment on the outside of the buildings.



SPECIFICATION

- 2.5 - 6.6kW nominal cooling duty
- Suitable for ducted indoor applications
- Reciprocating compressors
- Suction and liquid service valves
- Fan speed head pressure control
- Crankcase Heater
- Contactor
- LP switch (auto) & HP switch (auto)
- 3 minute delay timer
- Easy access for installation and service
- Random start timer
- Low ambient start timer
- Factory charged with R407C refrigerant
- Expansion device (orifice)
- Ducted air inlet and/or discharge
- Compressor Jacket
- DHPUE heat pump units include independent defrost strategy

OPTIONS

- CSR 1 Phase
- Overload on 1 Phase (Standard on 3ph)
- Condensate pump (DHPUL only) 5m head with overflow protection
- Volt free relay / HP switch (with alarm output)
- Isolator
- Ducting Kits
- Grille Kit
- Duct transition piece
- Wall mounting kit

Technical Information

MODEL	AIR ON TO CONDENSER °C	SATURATED SUCTION TEMPERATURE °C											
		-2.5		0		2.5		5		7.5		10	
		COOLING CAPACITY AND POWER INPUT KW											
		CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER
DCU+ 15 DHPUL(E)	25	1.88	0.97	2.12	1.03	2.35	1.08	2.61	1.13	2.87	1.16	3.21	1.19
	30	1.71	1.00	1.94	1.07	2.17	1.11	2.43	1.17	2.74	1.21	2.98	1.25
	35	1.67	1.05	1.88	1.12	2.02	1.17	2.33	1.23	2.55	1.27	2.68	1.32
	40	1.47	1.07	1.74	1.16	1.87	1.21	2.17	1.26	2.37	1.32	2.57	1.35
	45	1.45	1.10	1.63	1.19	1.83	1.27	2.01	1.32	2.29	1.35	2.38	1.41
DCU+ 20 DHPUL(E)	25	2.25	1.19	2.49	1.26	2.71	1.30	2.96	1.35	3.22	1.41	3.49	1.46
	30	2.08	1.22	2.31	1.28	2.54	1.34	2.78	1.40	3.01	1.45	3.26	1.51
	35	1.94	1.26	2.16	1.33	2.38	1.40	2.61	1.46	2.84	1.52	3.05	1.58
	40	1.83	1.30	2.04	1.37	2.25	1.44	2.46	1.50	2.66	1.56	2.86	1.63
	45	1.73	1.34	1.92	1.43	2.11	1.50	2.30	1.56	2.49	1.62	2.68	1.69
DCU+ 30	25	2.87	1.44	3.22	1.52	3.53	1.59	3.74	1.65	4.12	1.72	4.49	1.75
	30	2.71	1.48	3.06	1.57	3.27	1.63	3.51	1.70	3.84	1.77	4.19	1.82
	35	2.59	1.55	2.82	1.62	3.03	1.70	3.36	1.77	3.68	1.85	3.79	1.92
	40	2.38	1.59	2.71	1.67	2.80	1.75	3.12	1.82	3.32	1.90	3.62	1.97
	45	2.11	1.65	2.43	1.73	2.53	1.83	2.84	1.91	-	-	-	-
DCU+ 40 DHPUL(E)	25	3.81	1.80	4.23	1.91	4.46	2.01	4.75	2.07	5.09	2.17	5.47	2.26
	30	3.56	1.87	3.97	1.97	4.27	2.04	4.57	2.13	4.79	2.23	5.16	2.32
	35	3.27	1.91	3.63	2.00	3.93	2.09	4.32	2.17	4.59	2.27	4.83	2.37
	40	3.17	1.96	3.41	2.05	3.31	2.13	4.03	2.22	4.28	2.34	-	-
	45	2.98	2.02	3.20	2.09	-	-	-	-	-	-	-	-
DCU+ 50 DHPUL(E)	25	4.57	1.87	5.09	2.03	5.51	2.14	5.97	2.25	6.41	2.38	6.79	2.51
	30	4.34	1.95	4.75	2.09	5.25	2.19	5.63	2.32	6.04	2.45	6.49	2.58
	35	3.94	2.00	4.42	2.13	4.91	2.24	5.29	2.36	5.75	2.49	6.09	5.65
	40	3.76	2.05	4.22	2.18	4.58	2.29	5.04	2.41	5.39	2.58	5.69	2.74
	45	3.50	2.12	3.93	2.22	4.37	2.35	4.69	2.48	-	-	-	-
DCU+ 60 DHPUL(E)	25	4.96	2.28	5.48	2.44	5.99	2.58	6.45	2.72	6.97	2.84	7.46	2.96
	30	4.62	2.37	5.10	2.52	5.64	2.64	6.11	2.78	6.62	2.91	7.07	3.04
	35	4.33	2.42	4.81	2.56	5.30	2.70	5.79	2.84	6.25	2.97	6.67	3.12
	40	4.06	2.48	4.52	2.62	4.98	2.76	5.44	2.89	5.88	3.07	-	-
	45	3.81	2.56	4.24	2.67	-	-	-	-	-	-	-	-
DCU+ 80	25	5.90	2.68	6.44	2.88	6.84	3.05	7.31	3.18	7.73	3.33	8.21	3.47
	30	5.49	2.78	6.01	2.97	6.51	3.10	6.99	3.26	7.38	3.41	7.82	3.56
	35	5.09	2.85	5.60	3.02	6.09	3.17	6.57	3.32	6.93	3.47	7.35	3.64
	40	4.76	2.92	5.32	3.08	5.68	3.23	6.15	3.38	-	-	-	-
	45	4.54	3.00	-	-	-	-	-	-	-	-	-	-

Sound Levels

MODEL	SOUND PRESSURE LEVELS	
	FAN SPEED dBA	
	LOW	HIGH
DCU+ / DHPUL(E) 15	35	52
DCU+ / DHPUL(E) 20	35	52
DCU+ / DHPUL(E) 30	35	52
DCU+ / DHPUL(E) 40	35	52
DCU+ / DHPUL(E) 50	44	54
DCU+ / DHPUL(E) 60	44	54
DCU+ 80	44	54

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

Dimensions and Weights

MODEL	DIMENSIONS AND WEIGHTS - DCU+				
	HEIGHT (mm)**	WIDTH (mm)	DEPTH (mm)	SPIGOT (mm)	WEIGHT (mm)
DCU+ 15	495	1004	490	354	69
DCU+ 20	495	1004	490	354	70
DCU+ 30	495	1004	490	354	70
DCU+ 40	560	1174	490	354	72
DCU+ 50	560	1174	490	404	81
DCU+ 60	560	1174	490	404	81
DCU+ 80	560	1174	490	404	84

MODEL	DIMENSIONS AND WEIGHTS - DHPUL(E)				
	HEIGHT (mm)**	WIDTH (mm)	DEPTH (mm)	SPIGOT (mm)	WEIGHT (mm)
DHPUL(E) 15	495	1004	490	354	75
DHPUL(E) 20	495	1004	490	354	75
DHPUL(E) 30	495	1004	490	354	77
DHPUL(E) 40	495	1174	490	404	86
DHPUL(E) 50	560	1174	490	404	95
DHPUL(E) 60	560	1174	490	404	98



FM 00671

EMS 91502

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Part No: 06617661-05

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