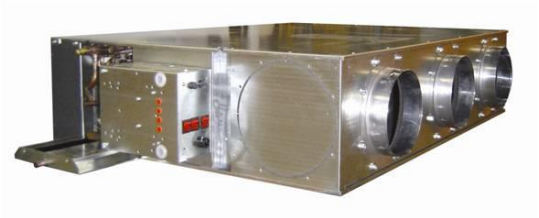
MARSTAIR
REFRIGERATION AND SPECIALIST AIR CONDITIONING

TECHNICAL MANUAL
for DIRECT EXPANSION DUCTED
DXD EC UNITS SPLIT SYSTEMS.



This manual provides technical and installation information for **DXD** split systems comprising:

INDOOR UNIT 566 series **direct expansion ducted DXD**

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DXD DIRECT EXPANSION DUCTED SPLIT SYSTEMS

The DXD range comprises 566 series ducted indoor units with a cooling range of 3.6 – 10.97kW at standard conditions.

PART NUMBERS

566 Series DXD INDOOR UNITS

Air Conditioners	DXD50	DXD60	DXD90	DXD130	DXD150
Part Number	55600100	55600101	556001025	56600103	56600104

FEATURES/ACCESSORIES

INDOOR UNITS

	DXD
Integral Discharge Plenum	STD
Long Life Washable Filter (to G2)	STD
5m Condensate Pump	*
Electric Heating	*
LPHW Coil	*
Fresh Air Spigot	**
Return Air Plenum	*
Additional 200mm or 250mm Diameter Spigots	**
Programmable Timer	**
Return Air Sensor	**

Key * = Factory Fitted Option, STD = + Standard, -- = not available, ** = Site Fitted

TECHNICAL INFORMATION - R407C

	MODEL	AIR ON EC	HUMIDITY % RH	EVAPORATING TEMPERATURE EC											
				-2.5		0		2.5		5		7.5		10	
				TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS
LOW FAN SPEED	50	10	70	2.41	1.69	1.83	1.36	1.26	1.03	0.73	0.73	0.37	0.37	-	-
		12.7	70	3.10	2.02	2.48	1.70	1.94	1.38	1.32	1.06	0.75	0.75	0.39	0.39
		15	70	3.73	2.30	3.16	1.98	2.58	1.66	1.96	1.34	1.29	1.03	0.73	0.73
		18	60	4.19	2.70	3.62	2.38	3.05	2.06	2.42	1.75	1.76	1.44	1.15	1.15
		21	50	4.57	3.10	4.01	2.78	3.43	2.47	2.81	2.16	2.15	1.86	1.57	1.57
	60	10	70	2.91	2.02	2.22	1.62	1.51	1.22	0.86	0.86	0.43	0.43	-	-
		12.7	70	3.74	2.42	3.06	2.02	2.35	1.64	1.60	1.25	0.88	0.88	0.46	0.46
		15	70	4.50	2.76	3.82	2.37	3.12	1.98	2.37	1.59	1.56	1.21	0.85	0.85
		18	60	5.06	3.22	4.38	2.84	3.68	2.46	2.94	2.07	2.14	1.69	1.34	1.34
		21	50	5.50	3.69	4.83	3.30	4.14	2.93	3.40	2.55	2.60	2.17	1.82	1.82
	90	10	70	4.80	3.35	3.66	2.69	2.50	2.05	1.43	1.43	0.72	0.72	-	-
		12.7	70	6.18	4.02	5.05	3.36	3.89	2.73	2.64	2.08	1.48	1.48	0.78	0.78
		15	70	7.43	4.58	6.30	3.93	5.14	3.29	3.90	2.66	2.58	2.02	1.42	1.42
		18	60	8.35	5.34	7.23	4.78	6.08	4.09	4.85	3.46	3.52	2.83	2.26	2.26
		21	50	9.10	6.14	7.98	5.50	6.84	4.87	5.61	4.26	4.29	0.43	3.07	3.07
	130	10	70	5.33	3.70	4.06	2.98	2.78	2.26	1.58	1.58	0.79	0.79	-	-
		12.7	70	4.46	4.46	5.60	3.72	4.31	3.02	2.94	2.30	1.63	1.63	0.85	0.85
		15	70	8.25	5.07	6.99	4.34	5.71	3.64	4.34	2.93	32.86	2.22	1.56	1.56
		18	60	9.26	5.92	8.02	5.21	6.74	4.50	5.38	3.82	3.90	3.12	2.48	2.48
		21	50	10.09	6.78	8.85	6.06	7.58	5.38	6.22	4.69	4.76	4.00	3.38	3.38
	150	10	70	6.76	4.69	5.16	3.78	3.52	2.86	2.00	2.00	1.00	1.00	-	-
		12.7	70	8.70	5.65	7.10	4.72	5.47	3.82	3.72	32.91	2.07	2.07	1.08	1.08
		15	70	10.46	6.43	58.87	5.50	7.25	4.62	5.50	3.72	3.63	2.82	1.98	1.98
		18	60	11.75	7.51	10.18	6.61	8.56	5.72	6.82	4.85	4.95	3.96	3.14	3.14
		21	50	-	-	11.23	5.30	9.62	6.83	7.90	5.95	6.04	5.07	4.29	4.29
MEDIUM FAN SPEED	50	10	70	2.51	1.77	1.91	1.42	1.30	1.08	.077	0.77	0.38	0.38	-	-
		12.7	70	3.23	2.11	2.64	1.78	2.03	1.45	1.38	1.11	0.79	0.79	0.42	0.42
		15	70	3.90	2.41	3.30	2.06	2.70	1.74	2.04	1.41	1.34	1.20	0.76	0.76
		18	60	4.38	2.82	3.78	2.48	3.18	2.17	2.54	1.84	1.84	1.52	1.21	1.21
		21	50	4.77	3.23	4.18	2.91	3.58	2.59	2.94	2.27	2.24	1.94	1.66	1.66
	60	10	70	3.08	2.14	2.35	1.72	1.61	1.30	0.91	0.91	0.46	0.46	-	-
		12.7	70	3.97	2.58	3.24	2.15	2.50	1.74	1.70	1.33	0.94	0.94	0.49	0.49
		15	70	4.77	2.94	4.05	2.51	3.30	2.10	2.51	1.70	1.66	1.29	0.90	0.90
		18	60	5.36	3.42	4.64	3.02	3.90	2.61	3.11	2.21	2.26	1.81	1.43	1.43
		21	50	5.84	3.93	5.12	3.51	4.39	3.12	3.60	2.71	2.75	2.31	1.95	1.95
	90	10	70	5.34	3.74	4.07	3.02	2.78	2.30	1.62	1.62	0.82	0.82	-	-
		12.7	70	6.87	4.49	5.61	3.76	4.32	3.06	2.94	2.35	1.68	1.68	0.87	0.87
		15	70	8.27	5.09	7.01	4.38	5.72	3.96	4.34	2.99	2.86	2.29	1.61	1.61
		18	60	9.30	5.98	8.05	4.47	6.76	4.58	5.38	3.90	3.90	3.19	2.56	2.56
		21	50	10.14	6.86	8.89	6.17	7.61	5.48	6.24	4.80	4.77	4.11	3.49	3.49
	130	10	70	5.88	4.11	4.49	3.30	3.06	2.51	1.76	1.76	0.89	0.89	-	-
		12.7	70	7.57	4.93	6.18	4.14	4.76	3.34	3.24	2.55	1.82	1.82	0.95	0.95
		15	70	9.11	5.61	7.72	4.82	6.30	4.03	4.78	3.27	3.15	2.50	1.75	1.75
		18	60	10.24	6.58	8.86	5.77	5.058	5.02	5.94	4.25	4.30	3.48	2.78	2.78
		21	50	11.15	7.52	9.78	6.74	8.38	6.01	6.87	5.25	5.26	4.49	3.79	3.79
	150	10	70	7.38	5.16	5.62	4.14	3.84	3.14	2.21	2.21	1.11	1.11	-	-
		12.7	70	9.50	6.18	7.75	5.18	5.97	4.19	4.06	3.20	2.29	2.29	1.19	1.19
		15	70	11.42	7.03	9.96	6.04	7.90	5.06	6.00	4.10	3.95	3.13	2.19	2.19
		18	60	-	-	11.11	7.23	9.34	6.29	7.44	5.33	5.40	4.36	3.48	3.48
		21	50	-	-	12.26	8.46	10.50	7.53	8.62	6.57	6.58	5.62	4.74	4.74
HIGH FAN SPEED	50	10	70	2.62	1.84	1.99	1.49	1.36	1.14	0.80	0.80	0.40	0.40	-	-
		12.7	70	3.37	2.21	2.74	1.85	2.11	1.51	1.43	1.16	0.83	0.83	0.43	0.43
		15	70	4.05	2.50	3.43	2.15	2.80	1.82	2.12	1.47	1.40	1.13	0.80	0.80
		18	60	4.55	2.94	3.94	2.60	3.31	2.26	2.55	1.93	1.91	1.59	1.27	1.27
		21	50	4.97	3.38	4.35	3.04	3.73	2.70	3.06	2.38	2.33	2.04	1.74	1.74
	60	10	70	3.26	2.28/	2.49	1.82	1.70	1.39	0.98	0.98	0.49	0.49	-	-
		12.7	70	4.20	2.73	3.43	2.28	2.64	1.85	1.80	1.41	1.01	1.01	0.53	0.53
		15	70	5.05	3.10	2.68	2.67	3.50	2.23	2.66	1.80	1.75	1.37	0.97	0.97
		18	60	5.67	3.63	4.91	3019	4.13	2.78	3.29	2.35	2.39	1.92	1.53	1.53
		21	50	6.18	4.17	5.42	3.74	4.65	3.31	3.81	2.90	2.91	2.46	2.09	2.09
	90	10	70	5.27	4.03	4.36	3.26	2.98	2.50	1.75	1.75	0.88	0.88	-	-
		12.7	70	7.36	4.83	5.68	4.04	4.62	3.30	3.14	2.54	1.82	1.82	0.95	0.95
		15	70	8.86	5.47	7.51	4.72	6.13	3.97	4.65	3.22	3.06	2.47	1.75	1.75
		18	60	9.97	6.43	8.62	5.69	7.25	4.95	5.77	4.22	4.18	3.47	2.78	2.78
		21	50	10.87	7.39	9.53	6.64	8.15	5.92	6.68	5.19	5.10	4.46	3.79	3.79
	130	10	70	6.74	4.74	5.14	3.83	3.50	2.94	2.06	2.06	1.04	1.04	-	-
		12.7	70	8.67	5.70	7.08	4.76	5.45	3.89	3.70	2.99	2.14	2.14	1.12	1.12
		15	70	10.44	6.45	8.85	5.55	7.22	4.67	5.47	3.79	3.60	2.91	2.06	2.06
		18	60	11.74	7.57	10.15	6.67	8.53	5.82	6.79	4.96	4.93	4.09	3.27	3.27
		21	50	12.80	8.70	11.22	7.82	9.60	6.97	7.87	6.10	6.01	5.25	4.46	4.46
	150	10	70	8.28	5.82	6.31	4.70	4.30	3.58	2.53	2.53	1.27	1.27	-	-
		12.7	70	10.66	6.97	8.70	5.84	6.70	4.77	4.55	3.66	2.62	2.62	1.37	1.37
		15	70	-	-	10.87	6.79	8.87	5.74	6.73	4.65	4.43	3.56	2.51	2.51
		18	60	-	-	12.48	8.18	10.49	7.14	0.35	6.07	6.06	5.00	3.99	3.99
		21	50	-	-	-	-	11.80	8.54	9.67	7.47	7.39	6.42	5.45	5.45

TECHNICAL INFORMATION - R134A

	MODEL	AIR ON EC	HUMIDITY % RH	EVAPORATING TEMPERATURE EC											
				-2.5		0		2.5		5		7.5		10	
				TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS
LOW FAN SPEED	50	10	70	2.42	1.70	1.85	1.37	1.26	1.04	0.73	0.73	0.37	0.37	-	-
		12.7	70	3.12	2.03	2.54	1.70	1.95	1.38	1.33	1.06	0.76	0.76	0.39	0.39
		15	70	3.75	2.31	3.18	1.98	2.59	1.67	1.96	1.35	1.29	1.03	0.73	0.73
		18	60	4.22	2.71	3.65	2.38	3.06	2.07	2.43	1.75	1.76	1.44	1.15	1.15
		21	50	4.60	3.11	4.03	2.79	3.45	2.48	2.82	2.17	2.15	1.86	1.57	1.57
	60	10	70	2.92	2.02	2.23	1.62	1.52	1.23	0.86	0.86	0.43	0.43	-	-
		12.7	70	3.76	2.43	3.07	2.03	2.36	1.65	1.61	1.25	0.88	0.88	0.46	0.46
		15	70	4.52	2.77	3.83	2.38	3.13	1.99	2.38	1.60	1.56	1.21	0.85	0.85
		18	60	5.08	3.24	4.39	2.85	3.70	2.46	2.94	2.07	2.14	1.69	1.34	1.34
		21	50	5.53	3.70	4.85	3.31	4.15	2.94	3.40	2.55	2.60	2.17	1.82	1.82
	90	10	70	4.83	3.37	3.68	2.70	2.51	2.05	1.43	1.43	0.72	0.72	-	-
		12.7	70	6.22	4.04	5.07	3.37	3.90	2.74	2.65	2.08	1.49	1.49	0.78	0.78
		15	70	7.48	4.60	6.34	3.94	5.17	3.30	3.92	2.66	2.58	2.02	1.42	1.42
		18	60	8.40	5.38	7.26	4.73	6.10	4.10	4.86	3.46	3.52	2.83	2.26	2.26
		21	50	9.15	6.16	8.02	5.52	4.46	4.89	5.62	4.27	4.30	3.63	3.07	3.07
	130	10	70	5.36	3.71	4.09	2.98	2.78	2.26	1.58	1.58	0.79	0.79	-	-
		12.7	70	6.90	4.47	5.62	3.75	4.33	3.02	2.94	2.30	1.63	1.63	0.00	0.00
		15	70	8.29	5.10	7.02	4.35	5.74	3.66	4.34	2.94	2.86	2.22	1.56	1.56
		18	60	9.31	5.95	8.06	5.23	6.77	4.52	5.39	3.82	3.91	3.12	2.48	2.48
		21	50	10.14	6.82	8.89	6.09	7.61	5.40	6.24	4.70	4.77	4.00	3.38	3.38
	150	10	70	6.80	4.71	5.18	3.78	3.54	2.87	2.00	2.00	1.00	1.00	-	-
		12.7	70	8.74	5.68	7.14	4.74	5.49	3.83	3.74	2.91	2.07	2.07	1.08	1.08
		15	70	10.52	6.46	8.91	5.53	7.27	4.63	5.52	3.73	3.63	2.82	1.98	1.98
		18	60	11.82	7.55	10.22	6.63	8.58	5.74	6.84	4.86	4.96	3.96	3.14	3.14
		21	50	12.86	8.65	11.28	7.72	9.66	6.85	7.91	5.96	6.05	5.07	4.28	4.28
MEDIUM FAN SPEED	50	10	70	2.53	1.78	1.93	1.43	1.31	1.09	0.77	0.77	0.38	0.38	-	-
		12.7	70	3.26	2.13	2.66	1.78	2.04	1.46	1.38	1.11	0.79	0.79	0.42	0.42
		15	70	3.92	2.42	3.32	2.07	2.70	1.74	2.05	1.42	1.34	1.08	0.76	0.76
		18	60	4.41	2.83	3.81	2.50	3.20	2.18	2.54	1.85	1.84	1.52	1.21	1.21
		21	50	4.81	3.26	4.21	2.92	3.60	2.60	2.94	2.27	2.25	1.95	1.65	1.65
	60	10	70	3.10	2.15	2.36	1.73	1.61	1.31	0.91	0.91	0.46	0.46	-	-
		12.7	70	3.98	2.59	3.26	2.16	2.50	1.75	1.70	1.33	0.94	0.94	0.49	0.49
		15	70	4.80	2.95	4.06	2.52	3.32	2.11	2.51	1.70	1.66	1.29	0.90	0.90
		18	60	5.38	3.44	4.66	3.02	3.92	1.82	3.12	2.22	2.26	1.81	1.43	1.43
		21	50	5.86	3.94	5.14	3.52	4.40	3.13	3.61	2.72	2.76	2.31	1.95	1.95
	90	10	70	5.38	3.77	4.10	3.04	2.79	2.30	1.62	1.62	0.82	0.82	-	-
		12.7	70	6.92	4.51	5.64	3.78	4.34	3.06	2.94	2.36	1.68	1.68	0.87	0.87
		15	70	8.33	5.13	7.06	4.40	5.75	3.70	4.35	2.99	2.86	2.29	1.61	1.61
		18	60	9.36	6.01	8.09	5.30	6.79	4.59	5.40	3.91	3.91	3.19	2.55	2.55
		21	50	10.20	6.90	8.94	6.19	7.64	5.50	6.26	4.81	4.77	4.12	3.49	3.49
	130	10	70	5.92	4.14	4.51	3.31	3.07	2.52	1.77	1.77	0.89	0.89	-	-
		12.7	70	7.62	4.96	6.22	4.15	4.78	3.35	3.25	2.56	1.83	1.83	0.95	0.95
		15	70	9.17	5.64	7.77	4.84	6.34	4.058	4.80	3.28	3.16	2.50	1.75	1.75
		18	60	10.30	6.61	8.90	5.80	7.48	5.04	5.95	4.26	4.31	3.49	2.78	2.78
		21	50	11.22	7.56	9.83	6.78	8.42	6.02	6.89	5.26	5.26	4.49	3.79	3.79
	150	10	70	7.42	5.18	5.66	4.15	3.86	3.15	2.21	2.21	1.11	1.11	-	-
		12.7	70	9.55	6.22	7.79	5.21	5.99	4.20	4.07	3.21	2.29	2.29	1.19	1.19
		15	70	11.49	7.07	9.74	6.06	7.94	5.07	6.02	4.11	3.96	3.13	2.19	2.19
		18	60	12.91	8.26	11.09	7.26	9.38	6.31	7.46	5.34	5.41	4.37	3.48	3.48
		21	50	14.06	9.48	12.33	8.49	10.55	7.53	8.64	6.58	6.59	5.62	4.74	4.74
HIGH FAN SPEED	50	10	70	2.63	1.86	2.01	1.50	1.37	1.14	0.81	0.81	0.40	0.40	-	-
		12.7	70	3.39	2.22	2.77	1.86	2.12	1.51	1.44	1.17	0.83	0.83	0.43	0.43
		15	70	4.08	2.52	3.46	2.17	2.82	1.82	2.13	1.48	1.40	1.13	0.80	0.80
		18	60	4.59	2.96	3.97	2.62	3.33	2.27	2.64	1.93	1.91	1.59	1.27	1.27
		21	50	5.00	3.40	4.38	3.05	3.74	2.71	3.06	2.38	2.34	2.04	1.74	1.74
	60	10	70	3.28	2.29	2.50	1.83	1.70	1.39	0.98	0.98	0.49	0.49	-	-
		12.7	70	4.22	2.74	3.45	2.29	2.65	1.86	1.80	1.42	1.01	1.01	0.53	0.53
		15	70	5.08	3.13	4.30	2.68	3.51	2.24	2.66	1.81	1.75	1.37	0.97	0.97
		18	60	5.71	3.65	4.94	3.21	4.14	2.78	3.30	2.35	2.39	1.93	1.53	1.53
		21	50	6.22	4.18	5.44	3.75	4.66	3.32	3.82	2.90	2.92	2.46	2.09	2.09
	90	10	70	5.76	4.06	4.39	3.27	2.99	2.50	1.76	1.76	0.88	0.88	-	-
		12.7	70	7.42	4.85	6.05	4.06	4.65	3.32	3.15	2.54	1.82	1.82	0.95	0.95
		15	70	8.94	5.51	7.56	4.74	6.16	3.99	4.66	3.32	3.06	2.47	1.75	1.75
		18	60	10.05	6.47	8.68	5.70	7.28	4.97	5.78	4.22	4.18	3.47	2.78	2.78
		21	50	10.95	7.44	9.59	6.67	8.20	5.94	6.70	5.20	5.11	4.46	3.79	3.79
	130	10	70	6.78	4.78	5.17	3.85	3.52	2.95	2.07	2.07	1.04	1.04	-	-
		12.7	70	8.74	5.71	7.12	4.78	5.47	3.90	3.71	3.00	2.14	2.14	1.12	1.12
		15	70	10.52	6.50	8.90	5.58	7.26	4.70	5.49	3.80	3.61	2.91	2.06	2.06
		18	60	11.82	7.62	10.22	6.70	8.58	5.85	6.82	4.97	4.93	4.09	3.26	3.26
		21	50	12.90	8.76	11.30	7.86	9.66	6.99	7.90	6.12	6.02	5.25	4.46	4.46
	150	10	70	8.34	5.86	6.35	4.72	4.33	3.58	2.53	2.53	1.27	1.27	-	-
		12.7	70	10.74	7.01	8.75	5.87	6.73	4.78	4.57	3.67	2.62	2.62	1.37	1.37
		15	70	12.92	7.98	10.94	6.83	8.92	5.76	6.75	4.66	4.44	3.57	2.51	2.51
		18	60	14.53	9.34	12.56	8.23	10.54	7.17	8.38	6.09	6.06	5.00	3.99	3.99
		21	50	15.84	10.73	13.87	9.63	11.86	8.56	9.70	7.49	7.40	6.42	5.44	5.44

TECHNICAL INFORMATION - R404A

	MODEL	AIR ON EC	HUMIDITY % RH	EVAPORATING TEMPERATURE EC											
				-2.5		0		2.5		5		7.5		10	
				TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS
LOW FAN SPEED		10	70	2.38	1.67	1.82	1.35	1.24	1.02	0.73	0.73	0.37	0.37	-	-
		12.7	70	3.06	2.00	2.50	1.68	1.93	1.36	1.31	1.06	0.75	0.75	0.39	0.39
	50	15	70	3.69	2.27	2.95	1.95	2.55	1.65	1.94	1.34	1.27	1.02	0.72	0.72
		18	60	4.15	2.66	3.59	2.35	3.02	2.05	2.40	1.74	1.74	1.43	1.14	1.14
		21	50	4.52	3.06	3.97	2.76	3.39	2.46	2.78	2.14	2.13	1.84	1.56	1.56
		10	70	2.89	2.00	2.20	1.61	1.50	1.22	0.85	0.85	0.42	0.42	-	-
		12.7	70	3.71	2.40	3.03	2.02	2.34	1.63	1.59	1.24	0.88	0.88	0.46	0.46
	60	15	70	4.46	2.74	3.79	2.35	3.10	1.97	2.35	1.58	1.55	1.20	0.84	0.84
		18	60	5.02	3.21	4.34	2.82	3.66	2.44	2.91	2.06	2.11	1.68	1.34	1.34
		21	50	5.46	3.66	4.79	3.28	4.10	2.91	3.37	2.54	2.58	2.16	1.82	1.82
		10	70	4.76	3.33	3.63	2.66	2.48	2.03	1.42	1.42	0.72	0.72	-	-
		12.7	70	6.13	3.99	5.00	3.33	3.85	2.70	2.62	2.06	1.48	1.48	0.77	0.77
	90	15	70	7.37	4.53	6.25	3.90	5.10	3.26	3.87	2.63	2.55	2.01	1.42	1.42
		18	60	8.28	5.30	7.17	4.67	6.02	4.06	4.80	3.44	3.49	2.82	2.25	2.25
		21	50	9.02	6.09	7.91	5.46	6.78	4.84	5.56	4.24	4.25	3.62	3.06	3.06
		10	70	5.29	3.67	4.03	2.95	2.75	2.25	1.57	1.57	0.78	0.78	-	-
		12.7	70	6.80	4.42	5.55	3.69	4.28	2.99	2.91	2.28	1.62	1.62	0.85	0.85
	130	15	70	8.18	5.03	6.94	4.30	5.66	3.62	4.30	2.91	2.83	2.21	1.56	1.56
		18	60	9.19	5.88	7.95	5.18	6.69	4.48	5.33	3.80	3.87	3.10	2.47	2.47
		21	50	10.01	6.74	8.78	6.02	7.52	5.35	6.18	4.66	4.72	3.98	3.37	3.37
		10	70	6.70	4.66	5.12	3.74	3.49	2.85	1.99	1.99	1.00	1.00	-	-
		12.7	70	8.63	5.61	7.05	4.68	5.42	3.80	3.70	2.90	2.06	2.06	1.07	1.07
	150	15	70	10.38	6.38	8.80	5.46	7.18	4.59	3.86	3.70	3.60	2.81	1.98	1.98
		18	60	11.66	7.46	10.10	6.56	8.49	5.68	6.77	4.82	4.91	3.94	3.14	3.14
		21	50	12.70	8.55	11.14	7.64	9.54	6.79	7.83	5.92	5.99	5.05	4.27	4.27
MEDIUM FAN SPEED		10	70	2.48	1.75	1.90	1.42	1.29	1.07	0.76	0.76	0.38	0.38	-	-
		12.7	70	3.20	2.10	2.61	1.76	2.01	1.43	1.37	1.10	0.79	0.79	0.42	0.42
	50	15	70	3.85	2.38	3.26	2.04	2.66	1.73	2.02	1.40	1.33	1.07	0.76	0.76
		18	60	4.33	2.79	3.74	2.46	3.14	2.15	2.50	1.83	1.82	1.50	1.21	1.21
		21	50	4.72	3.22	4.14	2.89	3.54	2.57	2.90	2.26	2.22	1.94	1.65	1.65
		10	70	3.06	2.13	2.34	1.71	1.59	1.30	0.91	0.91	0.46	0.46	-	-
		12.7	70	3.94	2.56	3.22	2.14	2.47	1.74	1.68	1.32	0.94	0.94	0.49	0.49
	60	15	70	4.74	2.91	4.02	2.49	3.28	2.10	2.49	1.69	1.64	1.28	0.90	0.90
		18	60	5.32	3.40	4.60	2.99	3.87	2.59	3.08	2.20	2.24	1.80	1.43	1.43
		21	50	5.79	3.90	5.08	3.49	4.35	3.10	3.57	2.70	2.73	2.30	1.95	1.95
		10	70	5.28	3.71	4.02	3.00	2.74	2.28	1.61	1.61	0.81	0.81	-	-
		12.7	70	6.80	4.45	5.55	3.73	4.27	3.04	2.90	2.34	1.67	1.67	0.87	0.87
	90	15	70	8.18	5.04	6.94	4.34	5.66	3.66	4.30	2.97	2.82	2.27	1.61	1.61
		18	60	9.20	6.39	7.96	5.22	6.69	4.54	5.33	3.87	3.86	3.17	2.54	2.54
		21	50	10.03	6.80	8.79	6.12	7.53	5.44	6.17	4.77	4.71	4.09	3.47	3.47
		10	70	5.82	4.08	4.44	3.27	3.03	2.50	1.76	1.76	0.88	0.88	-	-
		12.7	70	7.50	4.89	6.12	4.10	4.17	3.32	3.21	2.56	1.82	1.82	0.95	0.95
	130	15	70	9.02	5.56	7.65	4.78	6.25	4.00	4.74	3.26	3.12	2.48	1.74	1.74
		18	60	10.14	6.51	8.78	5.72	7.38	4.98	5.87	4.22	4.26	3.46	2.77	2.77
		21	50	11.06	7.46	9.70	6.70	8.30	5.97	6.81	5.22	5.20	4.46	3.78	3.78
		10	70	7.30	5.12	5.58	4.10	3.80	3.13	2.20	2.20	1.10	1.10	-	-
		12.7	70	9.41	6.13	7.68	5.14	5.91	4.16	4.02	3.18	2.28	2.28	1.18	1.18
	150	15	70	11.32	6.97	9.59	5.98	7.83	5.02	5.94	4.07	3.91	3.11	2.18	2.18
		18	60	12.72	8.17	11.01	7.18	9.26	6.25	7.37	5.29	5.35	4.34	3.47	3.47
		21	50	13.86	9.35	12.16	8.39	10.41	7.47	8.54	6.53	6.52	5.59	4.73	4.73
HIGH FAN SPEED		10	70	2.58	1.82	1.97	1.47	1.34	1.14	0.80	0.80	0.40	0.40	-	-
		12.7	70	3.33	2.18	2.71	1.83	2.09	1.50	1.42	1.15	0.83	0.83	0.43	0.43
	50	15	70	4.00	2.47	3.39	2.14	2.77	1.80	2.10	1.46	1.38	1.12	0.80	0.80
		18	60	4.50	2.90	3.90	2.58	3.27	2.24	2.60	1.91	1.89	1.58	1.26	1.26
		21	50	4.91	3.34	4.30	3.01	3.68	2.68	3.02	2.35	2.30	2.02	1.73	1.73
		10	70	3.23	2.26	2.46	1.82	1.68	1.38	0.97	0.97	0.49	0.49	-	-
		12.7	70	4.16	2.71	3.40	2.26	2.62	1.84	1.78	1.40	1.00	1.00	0.52	0.52
	60	15	70	5.01	3.08	4.25	2.65	3.46	2.22	2.63	1.79	1.74	1.36	0.96	0.96
		18	60	5.62	3.60	4.87	3.17	4.10	2.76	3.26	2.34	2.37	1.91	1.53	1.53
		21	50	6.13	4.14	5.38	3.70	4.61	3.29	3.78	2.88	2.89	2.46	2.08	2.08
		10	70	5.65	3.99	4.31	3.22	2.94	2.48	1.74	1.74	0.88	0.88	-	-
		12.7	70	7.28	4.78	5.94	4.00	4.57	3.27	3.10	2.52	1.82	1.82	0.94	0.94
	90	15	70	8.76	5.42	7.42	4.67	6.06	3.94	4.59	3.19	3.02	2.46	1.74	1.74
		18	60	9.86	6.36	8.52	5.63	7.16	4.90	5.70	4.18	4.13	3.45	2.77	2.77
		21	50	10.74	7.32	9.42	6.58	8.06	5.87	6.60	5.15	5.04	4.43	3.78	3.78
		10	70	6.66	4.70	5.07	3.79	3.46	2.92	2.06	2.06	1.03	1.03	-	-
		12.7	70	8.57	5.63	6.99	4.71	5.38	3.86	3.66	2.97	2.14	2.14	1.11	1.11
	130	15	70	10.32	6.38	8.74	5.50	7.13	4.63	5.41	3.76	3.56	2.89	2.05	2.05
		18	60	11.61	7.50	10.04	6.63	8.43	5.78	6.71	4.92	4.86	4.06	3.26	3.26
		21	50	12.66	8.62	11.10	7.75	9.49	6.90	7.78	6.06	5.94	5.22	4.44	4.44
		10	70	8.18	5.77	6.24	4.66	4.26	3.54	2.51	2.51	1.26	1.26	-	-
		12.7	70	10.54	6.90	8.60	5.79	6.62	4.73	4.50	3.64	2.61	2.61	1.36	1.36
	150	15	70	12.69	7.84	10.75	6.73	8.78	5.69	6.66	4.61	4.38	3.54	2.50	2.50
		18	60	14.27	9.21	12.34	8.11	10.37	7.08	8.26	6.02	5.98	4.97	3.98	3.98
		21	50	15.56	10.58	13.64	9.50	11.67	8.46	9.57	7.42	7.30	6.38	5.42	5.42

TECHNICAL INFORMATION - R410A

	MODEL	AIR ON EC	HUMIDITY % RH	EVAPORATING TEMPERATURE EC											
				-2.5		0		2.5		5		7.5		10	
				TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS	TOTAL	SENS
LOW FAN SPEED	50	10	70	2.56	1.78	1.95	1.42	1.34	1.08	0.75	0.75	0.38	0.38	-	-
		12.7	70	3.30	2.14	2.69	1.79	2.07	1.44	1.42	1.10	0.78	0.78	0.40	0.40
		15	70	3.96	2.43	3.36	2.09	2.74	1.75	2.09	1.41	1.38	1.07	0.74	0.74
		18	60	4.45	2.85	3.86	2.50	3.24	2.17	2.58	1.83	1.88	1.49	1.18	1.18
		21	50	4.85	3.25	4.26	2.91	3.65	2.58	2.99	2.25	2.30	1.92	1.61	1.61
	60	10	70	3.03	2.09	2.32	1.68	1.58	1.26	0.86	0.86	0.43	0.43	-	-
		12.7	70	3.90	2.51	3.19	2.08	2.46	1.70	1.68	1.28	0.88	0.90	0.46	0.46
		15	70	4.69	2.86	3.98	2.46	3.26	2.06	2.47	1.65	1.63	1.24	0.86	0.86
		18	60	5.26	3.35	4.56	2.94	3.84	2.54	3.06	2.14	2.23	1.73	1.36	1.35
		21	50	5.73	3.82	5.03	3.42	4.31	3.02	3.54	2.62	2.72	2.22	1.86	1.86
	90	10	70	5.06	3.50	3.86	2.81	2.64	2.12	1.46	1.46	0.74	0.74	-	-
		12.7	70	6.51	4.22	5.32	3.51	4.10	2.84	2.79	2.15	1.51	1.51	0.78	0.78
		15	70	7.82	4.80	6.64	4.10	5.43	3.44	4.13	2.76	2.73	2.09	1.45	1.45
		18	60	8.78	5.60	7.62	4.92	6.41	4.26	5.11	3.59	3.72	2.93	2.30	2.30
		21	50	9.57	6.40	8.40	5.74	7.20	5.06	5.92	4.42	4.54	3.74	3.13	3.13
	130	10	70	5.58	3.85	4.26	3.09	2.91	2.34	1.61	1.61	0.81	0.81	-	-
		12.7	70	7.18	4.63	5.87	3.88	4.53	3.13	3.09	2.37	1.66	1.66	0.86	0.86
		15	70	8.63	5.30	7.33	4.53	5.99	3.79	4.56	3.04	3.01	2.29	1.58	1.58
		18	60	9.69	6.17	8.39	5.42	7.07	4.68	5.64	3.95	4.10	3.22	2.51	2.51
		21	50	10.54	7.04	9.26	6.30	7.94	5.58	6.53	4.84	5.00	4.11	3.43	3.43
	150	10	70	7.09	4.88	5.42	3.92	3.70	2.96	2.04	2.04	1.02	1.02	-	-
		12.7	70	9.11	5.87	7.45	4.92	5.74	3.97	3.91	3.01	2.10	2.10	1.10	1.10
		15	70	10.95	6.72	9.30	5.75	7.60	4.81	5.78	3.86	3.82	2.90	2.02	2.02
		18	60	12.30	7.82	10.66	6.89	8.97	5.94	7.16	5.02	5.21	4.08	3.19	3.19
		21	50	13.38	8.93	11.75	7.99	10.08	7.07	8.28	6.14	6.34	5.22	4.35	4.35
MEDIUM FAN SPEED	50	10	70	2.69	1.86	2.05	1.50	1.40	1.14	0.79	0.79	0.39	0.39	-	-
		12.7	70	3.46	2.24	2.82	1.88	2.18	1.52	1.48	1.16	0.82	0.82	0.42	0.42
		15	70	4.15	2.55	3.53	2.19	2.88	1.84	2.19	1.48	1.45	1.13	0.78	0.78
		18	60	4.67	2.98	4.04	2.62	3.40	2.28	2.71	1.93	1.98	1.58	1.24	1.24
		21	50	5.09	3.42	4.46	3.06	3.82	2.72	3.14	2.37	2.41	2.02	1.70	1.70
	60	10	70	3.23	2.22	2.47	1.79	1.69	1.35	0.93	0.93	0.46	0.46	-	-
		12.7	70	4.16	2.69	3.40	2.24	2.62	1.81	1.78	1.37	0.96	0.96	0.50	0.50
		15	70	5.00	3.06	4.24	2.62	3.46	2.19	2.64	1.76	1.74	1.33	0.92	0.92
		18	60	5.61	3.57	4.86	3.14	4.09	2.71	3.26	2.29	2.38	1.86	1.46	1.46
		21	50	6.10	4.07	5.36	3.65	4.60	3.22	3.78	2.80	2.90	2.38	1.98	1.98
	90	10	70	5.06	3.50	3.86	2.81	2.64	2.12	1.46	1.46	0.74	0.74	-	-
		12.7	70	6.13	4.03	4.94	3.34	3.71	2.66	2.41	1.97	1.31	1.31	0.58	0.58
		15	70	7.82	4.80	6.64	4.10	5.43	3.44	4.13	2.76	2.73	2.09	1.45	1.45
		18	60	8.78	5.60	7.62	4.92	6.41	4.26	5.11	3.59	3.72	2.93	2.30	2.30
		21	50	9.57	6.40	8.40	5.74	7.20	5.06	5.92	4.42	4.54	3.74	3.13	3.13
	130	10	70	6.22	4.31	4.75	3.45	3.25	2.62	1.81	1.81	0.90	0.90	-	-
		12.7	70	8.00	5.18	6.54	4.32	5.04	3.50	3.43	2.66	1.86	1.86	0.97	0.97
		15	70	9.62	5.90	8.17	5.07	6.67	4.23	5.07	3.42	3.35	2.59	1.78	1.78
		18	60	10.81	6.90	9.36	6.06	7.88	5.25	6.29	4.42	4.58	3.61	2.83	2.83
		21	50	11.76	7.88	10.33	7.06	8.86	6.24	7.27	5.45	5.57	4.63	3.86	3.86
	150	10	70	7.79	5.40	5.95	4.32	4.06	3.27	2.26	2.26	1.13	1.13	-	-
		12.7	70	10.02	6.49	8.19	5.42	6.31	4.38	4.30	3.32	2.34	2.34	1.22	1.22
		15	70	12.05	7.39	10.22	6.34	8.36	5.30	6.35	4.28	4.19	3.24	2.23	2.23
		18	60	13.54	8.62	11.72	7.58	9.86	6.57	7.87	5.54	5.73	4.51	3.54	3.54
		21	50	14.73	9.86	12.94	8.83	11.09	7.81	9.11	6.82	6.98	5.79	4.83	4.83
HIGH FAN SPEED	50	10	70	2.81	1.95	2.14	1.58	1.46	1.20	0.83	0.83	0.42	0.42	-	-
		12.7	70	3.61	2.34	2.95	1.96	2.27	1.59	1.54	1.22	0.86	0.86	0.45	0.45
		15	70	4.34	2.67	3.69	2.29	3.01	1.93	2.29	1.55	1.51	1.18	0.82	0.82
		18	60	4.88	3.12	4.22	2.75	3.55	2.39	2.83	2.02	2.06	1.66	1.30	1.30
		21	50	5.31	3.58	4.66	3.21	4.00	2.85	3.28	2.48	2.51	2.12	1.78	1.78
	60	10	70	3.44	2.38	2.62	1.90	1.79	1.44	0.99	0.99	0.50	0.50	-	-
		12.7	70	4.42	2.86	3.62	2.38	2.78	1.93	1.90	1.46	1.02	1.02	0.54	0.54
		15	70	5.31	3.26	4.51	2.79	3.69	2.34	2.80	1.87	1.85	1.42	0.98	0.98
		18	60	5.97	3.80	5.17	3.34	4.35	2.90	3.47	2.44	2.53	1.98	1.56	1.56
		21	50	6.50	4.34	5.70	3.90	4.89	3.44	4.02	2.99	3.08	2.54	2.13	2.13
	90	10	70	6.14	4.27	4.68	3.44	3.20	2.62	1.81	1.81	0.91	0.91	-	-
		12.7	70	7.90	5.12	6.45	4.30	4.97	3.49	3.38	2.66	1.87	1.87	0.98	0.98
		15	70	9.50	5.85	8.06	5.01	6.58	4.21	5.00	3.40	3.30	2.58	1.80	1.80
		18	60	10.67	6.83	9.24	6.01	7.78	5.22	6.20	4.42	4.50	3.62	2.86	2.86
		21	50	11.62	7.82	10.21	7.02	8.74	6.22	7.18	5.43	5.50	4.63	3.89	3.89
	130	10	70	7.22	5.03	5.51	4.05	3.77	3.08	2.13	2.13	1.07	1.07	-	-
		12.7	70	9.30	6.03	7.59	5.06	5.85	4.10	3.98	3.14	2.21	2.21	1.15	1.15
		15	70	11.18	6.89	9.49	5.89	7.75	4.96	5.89	4.00	3.88	3.04	2.11	2.11
		18	60	12.56	8.04	10.88	7.07	9.15	6.15	7.30	5.21	5.30	4.26	3.35	3.35
		21	50	13.68	9.21	12.01	8.26	10.30	7.32	8.45	6.39	6.46	5.46	4.58	4.58
	150	10	70	7.79	5.40	5.95	4.32	4.06	3.27	2.26	2.26	1.13	1.13	-	-
		12.7	70	10.02	6.49	8.19	5.42	6.31	4.38	4.30	3.32	2.34	2.34	1.22	1.22
		15	70	12.05	7.39	10.22	6.34	8.36	5.30	6.35	4.28	4.19	3.24	2.23	2.23
		18	60	13.54	8.62	11.72	7.58	9.86	6.57	7.87	5.54	5.73	4.51	3.54	3.54
		21	50	14.73	9.86	12.94	8.83	11.09	7.81	9.11	6.82	6.98	5.79	4.83	4.83

OPTIONAL ELECTRIC HEATING (FACTORY FIT ONLY)

DXD	ELECTRIC HEATER (kW at 240V)	ELECTRIC HEATER (kW at 230V)
50	2.0	1.92
60	2.0	1.92
90	2.0	1.92
130	3.0	2.87
150	4.0	3.84

AIR VOLUME (based on 30 Pa external resistance)

DXD	SPIGOTS FRONT (Qty)	230V Minimum Speed m^3/s	230V Medium Speed m^3/s	230V Maximum Speed m^3/s
50	2	0.160	0.170	0.180
60	2	0.180	0.194	0.209
90	3	0.310	0.350	0.372
130	3	0.335	0.382	0.462
150	4	0.425	0.477	0.560

DXD ACOUSTIC DATA

All sound data ascertained at 30Pa. external resistance
Sound Power Level (SWL) dB ref.10 -12 W

		INLET/ CASING RADIATED						DISCHARGE						N.R. GUIDE
		Hz						Hz						
MODEL	SPD	125	250	500	1k	2k	4k	125	250	500	1k	2k	4k	
DXD(H) 50	1	57.3	52.6	48.6	37.8	32.3	25.7	48.8	45.8	34.6	27.2	15.0	8.5	35
	2	57.4	54.3	49.1	38.0	34.3	26.5	49.7	46.8	35.9	27.8	16.9	9.9	37
	3	58.3	55.5	49.4	39.2	34.9	28.1	50.9	47.4	37.2	28.3	18.7	11.3	40
DXD(H) 60	1	57.3	52.6	48.6	38.1	32.5	26.1	48.8	45.8	35.2	27.7	15.8	8.9	35
	2	57.6	54.4	49.9	39.2	34.9	27.2	50.2	47.1	37.1	28.2	17.4	10.0	37
	3	58.8	56.1	50.8	41.0	36.2	29.9	52.1	48.3	38.8	30.0	20.0	12.1	40
DXD(H) 90	1	57.4	52.8	48.8	38.8	33.0	27.0	48.9	45.9	36.0	28.2	17.0	9.2	35
	2	58.1	54.8	51.5	41.9	36.0	29.6	51.4	47.8	40.0	30.8	19.6	10.1	37
	3	59.2	58.1	54.6	44.4	38.7	33.4	54.5	52.0	43.6	34.4	23.7	14.0	40
DXD(H) 130	1	57.7	53.5	49.6	40.2	34.2	28.2	49.0	46.0	36.4	29.1	17.9	9.7	35
	2	58.3	56.2	53.0	43.1	36.9	31.1	51.7	48.1	40.4	31.0	20.0	10.6	37
	3	59.8	58.4	55.1	45.1	39.0	34.2	54.7	52.2	43.9	34.7	23.9	14.6	40
DXD(H) 150	1	58.2	55.3	51.7	42.5	35.3	30.5	49.1	46.2	36.5	29.5	18.5	10.0	35
	2	59.7	58.4	54.7	44.9	37.8	33.3	51.9	48.2	40.8	31.2	20.1	11.0	37
	3	60.0	58.5	55.2	45.6	39.2	35.4	55.0	52.4	44.1	34.9	24.0	14.8	40

Qualification of N.R. predictions:
The N.R. guide figures quoted on the output data page are intended to show the levels which may be expected in a typical office environment provided the following apply: Room sizes are based on a cooling load of 120W/m2. Units must be correctly mounted onto a solid structure, using drop rods attached to mounting points provided, in a false ceiling not less than 300mm deep, with standard 'T' bar grid and 10mm fibreboard tiles. Rooms should be carpeted, have not more than 20% glazing, or highly reflective surfaces. In open plan areas units should be mounted not less than 6m apart and return-air grilles should not be mounted directly below, or adjacent to unit inlets. 1m of non noise regenerative flexible duct should be fitted to each outlet spigot sized to maintain required N.R. level. i.e. 1.5m/s at NR25, 2m/s at NR30, 3m/s at NR35 and 4m/s at NR40.

The foregoing should ensure the 'guide' N.R. levels are met when measured at 1.5m from the nearest grille, provided the grille plenums are correctly sized and insulated.

ELECTRICAL DATA (Cooling Data rated at NEMA [EUROVENT] conditions) (Heating Data rated at 20°C/12°C indoor; 7°C/6°C ambient)

R407C Air Conditioning Systems with CKC (MAX SPEED INDOOR FAN)

	Single Phase Supply 230Volts - 50Hz					Three Phase Supply 400Volts - 50Hz				
DXD + CKC	INPUT		FULL LOAD AMPS		SYSTEM MAX. STARTING CURRENT	INPUT		FULL LOAD AMPS		SYSTEM MAX. STARTING CURRENT
	Cooling	Electric Heating	Cooling	Electric Heating		Cooling	Electric Heating	Cooling	Electric Heating	
	kW	kW	AMPS	AMPS	AMPS	kW	kW	A/PH	A/PH*	A/PH
50 + 30	1.5	2.0	13.0	8.70	37	1.5	2.0	4.8	8.7	19
60 + 60	2.1	2.0	15.8	8.70	62	2.0	2.0	6.1	8.7	33
90 + 90	3.1	2.0	24.1	8.70	102	3.0	2.0	7.9	8.7	49
130 + 100	-	-	-	-	-	3.3	3.0	11.0	13.0	52
130 + 130	-	-	-	-	-	3.7	3.0	12.0	13.0	63
150 + 150	-	-	-	-	-	4.2	4.0	13.0	17.4	64

R407C Air Conditioning Systems with DXD (MAX SPEED INDOOR FAN)

	Single Phase Supply 230Volts - 50Hz					Three Phase Supply 400Volts - 50Hz				
DXD + DCU+	INPUT		FULL LOAD AMPS		SYSTEM MAX. STARTING CURRENT	INPUT		FULL LOAD AMPS		SYSTEM MAX. STARTING CURRENT
	Cooling	Electric Heating	Cooling	Electric Heating		Cooling	Electric Heating	Cooling	Electric Heating	
	kW	kW	AMPS	AMPS	AMPS	kW	kW	A/PH	A/PH	A/PH
50 + 30	1.5	2.0	13	8.7	37	1.5	2.0	4.8	8.7	19
60 + 60	2.6	2.0	19.2	8.7	64	2.6	2.0	6.7	8.7	26

ELECTRICAL LOADS (230 Volts 50Hz 1Ph, in Amps)

DXD	50	60	90	130	150
FAN MOTOR	0.65	0.80	1.38	1.77	2.32
ELECTRIC HEATER (AIR COND.) OPTION	8.70	8.70	8.70	13.0	17.4
ELECTRIC HEATER (HEAT PUMPS) OPTION	8.70	8.70	8.70	13.0	17.4

FUSES

The system and its supply/interconnecting wiring must be protected by fuses, preferably High Rupture Current (HRC) motor rated types (EN60269) or miniature circuit breakers (EN60898) or local codes having similar time lag characteristics, that allow starting of the compressor yet still afford close overcurrent protection under running conditions. The ratings below are for HRC motor rated fuses.

SYSTEMS WITH 1 Ph 230 V 50Hz OUTDOOR UNITS (A)

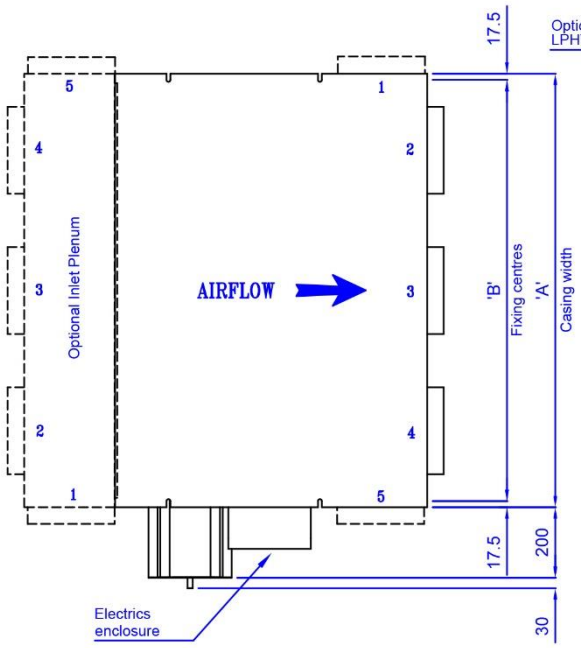
DXD						
CKC or DCU+	**50**		**60**		**90**	
	S	**H**	**S**	**H**	**S**	**H**
30	16	20				
60			20	20		
90*					32	32

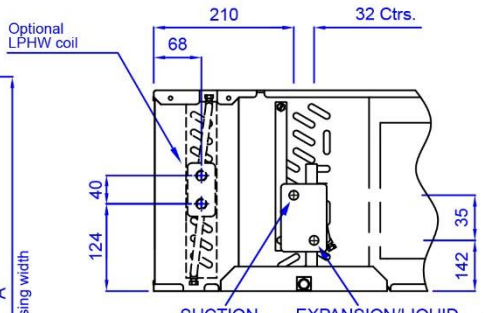
**** Ducted outdoor unit not available at this size***
S= Standard DXD Unit, H= DXD Unit with Electric Heaters fitted or DXDH Unit
Values are for R407C systems

SYSTEMS WITH 3 Ph 400V 50Hz OUTDOOR UNITS (A/Ph)

DXD										
CKC or DCU+	**50**		**60**		**90**		**130**		**150**	
	S	**H**	**S**	**H**	**S**	**H**	**S**	**H**	**S**	**H**
30	10	16								
60			10	20						
90*					16	20				
100*							16	20		
130*							20	20		
150*									20	20

**** Ducted unit not available in this size***
S= Standard DXD Unit, H= DXD Unit with Electric Heaters fitted or DXDH Unit
Values are for R407C systems

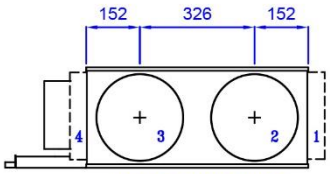




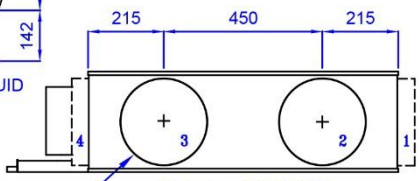
DXD COIL CONNECTION DETAIL

Connections details

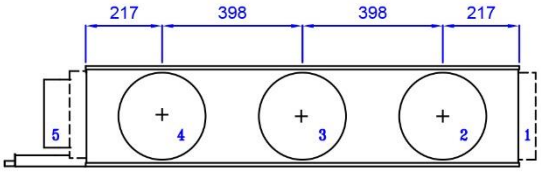
UNIT	SUCT	LIQ
50	1/2"	3/8"
60	5/8"	1/2"
90	3/4"	1/2"
130	3/4"	1/2"
150	3/4"	1/2"



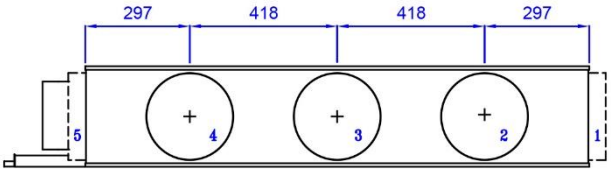
Unit sizes DXD(H) 50



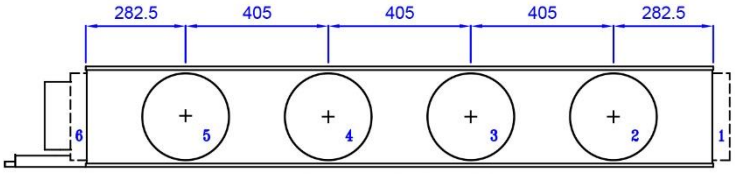
Unit sizes DXD(H) 60



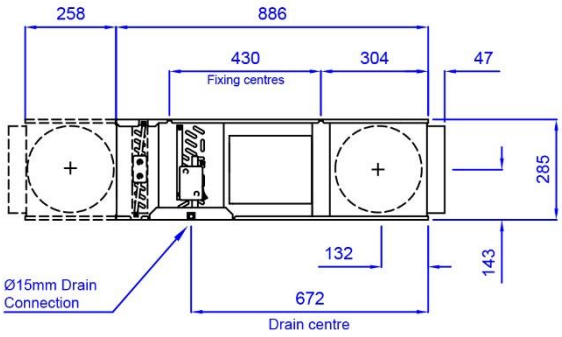
Unit sizes DXD(H) 90



Unit sizes DXD(H) 130



Unit sizes - DXD(H) 150



All Handings viewed in direction of airflow
All units supplied as right hand as per illustration above

NB. Max. airflow per 250mm dia. spigot to maintain NR35 = 150 l/s
Max. airflow per 200mm dia. spigot to maintain NR35 = 100 l/s

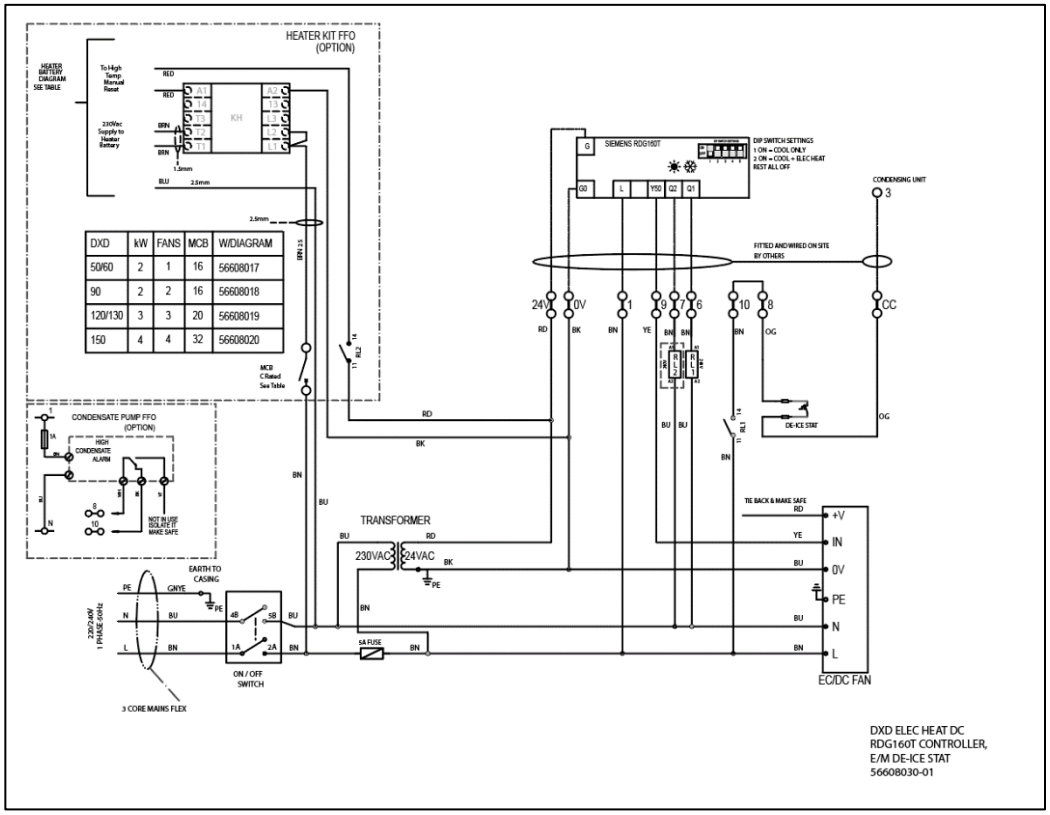
1. If a front spigot is not to be used then it must be replaced by the corresponding side spigot to allow equal airflow over the coil
2. A maximum of 30pa resistance is allowed (total of inlet and discharge added together)
3. Unit supplied with ALL front spigots fitted

Dimensional Information

Unit Model	Dim 'A'	Dim 'B'	Spigot Options	Weight (approx Kg)	Minimum number of outlets and return air spigots to be used
DXD(H) 50	630	595	2-3	42	2
DXD(H) 60	880	845	2-3	52	2
DXD(H) 90	1230	1195	2-3-4	69	3
DXD(H) 130	1430	1395	2-3-4	86	3
DXD(H) 150	1780	1745	2-3-4-5	103	4

WIRING DIAGRAMS

INTERCONNECTING WIRING



TROUBLE SHOOTING

Unit will not cool	No mains supply to the control board.
Pump does not run	The fuse on the pcba has failed (315 mA x 20mm) Sensor is disconnected from the control board
Cooling is interrupted	Restriction in pump flow allowing the condensate level to rise and trip the overflow circuit - check for blockage or kink in hoses. Condensate at high level -- tripping overflow circuit Pump filter blocked - remove, clean and replace
Excessive pump noise	Air leak in hoses and/or joints Pumping without water in sump -- control board fault Loose connection between the sensor and the control board Loose fuse, intermittent mains supply to the control board Water syphoning due to lack of an air break in the outlet from the pump

APPLICATION NOTES

1 The pump will work against a 5m head. Flow rate is highest with minimum head.
2 Long drains should not be exposed outdoors, as condensate may freeze and block the drain in winter.
3 Ensure that there are no kinks in any of the drain hoses as this could seriously affect the pump performance.
4 Avoid having the drain outlet more than 200mm below the level of the pump, otherwise syphoning may occur, giving rise to noisy pump operation. Avoid this by fitting an air break eg. by pumping into a larger diameter pipe than that from the pump.
5 Clean the filter at regular intervals.