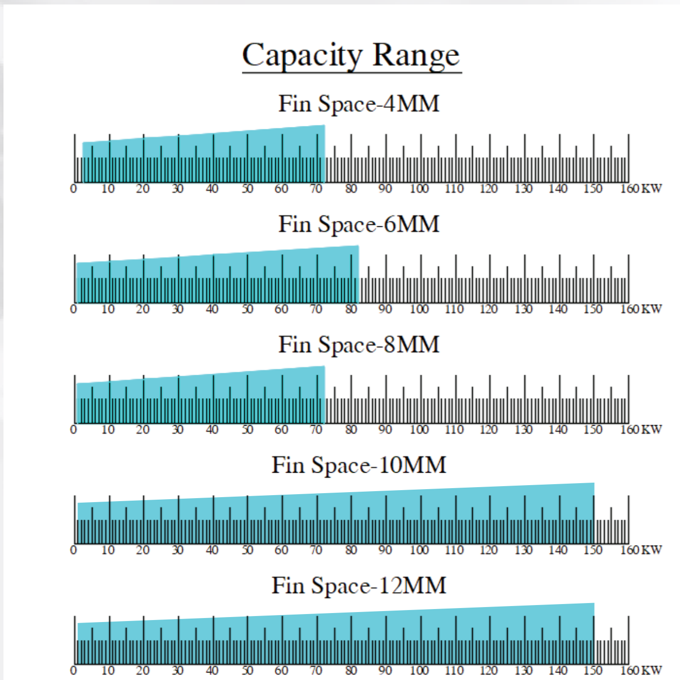
DEW-COLD™

TECHNICAL DATA SHEET

R22 R134a R404A R507A

EVAPORATOR UNITS



ENGINEERING & DESIGN BY:
ESRA

#447, BROADWAY, 2ND FLOOR, SUITE# 680, NEW YORK-10013

CLASSIFICATION

DEW-COLD

D M B 30 3 4 4 E

- D- Dew Cold
- M- Medium Temp
- L- Low Temp
- B- Blast Freezer
- B- Box Type
- S-Slim Type
- F-Floor Mound
- 30- Fan Dia 30 X10
- E- Electric
- H- Hot Gas
- A- Air Defrost
- 4- Column
- 4- 4/6/8/10/12-Fin Space
- 3- No of fans.

Capcity Starndard

Standard Conditions for Refrigerants	Evaporating Temp. o C	Room Temp. o C
SC1	10	0
SC2	0	-8
SC3	-18	-25
SC4	-25	-31

Recommended Efficent Fin Spacing According to Room Temperatures.

Eurovent 328 Standaard	Fin Spacing	Room Temp (T1)
SC1	4mm-6mm	10 C°
SC2	6mm-8mm	0 C°
SC3	8mm-10mm	-18 C°
SC4	10mm	-25 C°

Temperature Corrector Factor

K1

DT, (oC)	4	5	6	7	8	10	12	14
10	0.67	0.83	0.99	1.15	1.32	1.64	1.96	2.29
5	0.63	0.78	0.94	1.1	1.26	1.57	1.88	2.2
0	0.06	0.75	0.9	1.06	1.2	1.52(Klscl)	1.82	2.12
-5	0.57	0.72	0.86	1.01	1.15	1.44	1.74	2.03
-8	0.5	0.63	0.76	0.88	1.00(K1sc2)	1.26	1.51	1.76
-10	0.49	0.6	0.72	0.85	0.97	1.22	1.47	1.71
-15	0.47	0.59	0.71	0.82	0.94	1.17	1.4	1.63
-20	0.44	0.55	0.66	0.77	0.88	1.1	1.32	1.54
-25	0.42	0.52	0.62	0.73(K1Sc3)	0.83	1.04	1.25	1.46
-30	0.39	0.49	0.58 (K1sc4)	0.69	0.78	0.97	1.17	1.36
-35	0.35	0.45	0.54	0.63	0.72	0.9	1.08	1.26
-40	0.33	0.41	0.49	0.57	0.65	0.81	0.97	1.13

Refrigerant Factor

K2

Refrigerant	SC1	SC2	SC3	SC4
R404A	1	1		
R507A	0.97	0.97	0.97	0.97
R134A	0.93	0.91	0.85	-
R22				
R407A	1.19	1.24	1.28	1.32
R407C	1.21	1.26	1.31	1.36
R404F	1.19	1.24	1.29	1.35

Fin Material Correction Factors

Fin Material	Aluminium	Coated aluminum	Copper
K3	1	0.97	1.03

If the operating condition of the evaporator 1s different than Euro vent standards, please use the following formula and tables to convert your capacity to SC2 conditions. In this case, the evaporator can be selected from suitable fin space and SC2 columns.

Cooling Capacity Q Room = 22,00 kW
Refrigerant = R22
Room Temperature. Tl =+5°C
Evaporation Temperature. T2 =-5°C
M= Tl -T2 = (5)-(-5) =10°C
Closest Euro-vent Standard 1s SC2.
Table-2 6mm Fin space 1s chosen.
Table-3 i'JT=10°C => K/=1,44
Table-3 K1,SC2=1,00
Table-3 Refrigerant R22 => K2=0, 97
Fin Material Al
Table-4 K3= 1,00
OSC2 = (QODAIK2) x (K1,SC2/K1) I K3 = 15,75 kW Selected Unit Cooler. Cooler Data (SC2= 15.600.Watt)

DMB

MEDIUM TEMPERATURE

DEW-COLD

Copper Tube 12MM   Geometry 35mmX 35mm   Fin Spacing - 4 mm

Model	Tube Volume	Area	Capacity (W)				Fans							Elec Defrost	
	(L)	(dm3)	SC1	SC2	SC3	SC4	Qty	Dia (mm)	Power (w)	Voltage (w)	Air Flow (m^3/h)	Air Throw (m)	Noise Level DB (A)	Coil (w)	Drain T Ray (w)
DMB30 143	1.68	9.45	3560	2440	-	-	1	300	88	220	1436	10	61	3X 250	1 X250
DMB30 144	2.24	12.60	4370	2990	-	-	1	300	88	220	1368	9	61	4X 250	2 X250
DMB35 143	2.03	11.11	5800	3990	-	-	1	350	118	220	2600	13	63	3X 300	1 X300
DMB30 243	3.05	18.90	7200	4900	-	-	2	300	176	220	2736	13	61	3X 500	1 X500
DMB30 244	4.07	25.20	8700	5900	-	-	2	300	176	220	4275	10	61	4X 500	2 X500
DMB35 243	4.41	24.15	11800	8000	-	-	2	350	236	220	5200	13	63	3X 700	1 X700
DMB30 344	6.35	39.20	13300	9100	-	-	3	300	264	220	6412	10	61	4X 1500	2 X 1500
DMB35 244	6.47	35.42	14700	10100	-	-	2	350	236	220	4690	12	63	4X 700	2 X 700
DMB35 344	8.32	44.44	20200	13800	-	-	3	350	354	220	7035	13	63	4X 700	2 X 700
DMB35 346	8.83	48.30	22000	15100	-	-	3	350	354	220	7040	13	63	4X 700	2 X 700
DMB45 244	13.03	72.80	26400	18000	-	-	2	450	480	220	11720	16	68	4X 800	2 X 800
DMB45 247	13.85	77.35	29600	20200	-	-	2	450	480	220	10600	14	68	6X 800	2 X 800
DMB45 246	16.29	91.00	33800	23100	-	-	2	450	480	220	10800	15	68	6X 850	2 X 850
DMB50 246	19.55	109.20	38150	26100	-	-	2	500	820	380	13280	18	68	4X 1200	2 X 1200
DMB45 344	19.55	109.20	39500	27000	-	-	3	450	720	220	17580	16	68	4X 1200	2 X 1200
DMB50 248	26.07	145.60	44100	30100	-	-	2	500	820	380	13080	18	68	6X 1200	2 X 1200
DMB50 344	19.55	109.20	48600	33200	-	-	3	500	1230	380	22500	21	65	4X 1200	2 X 1200
DMB63 244	28.24	154.70	55000	37600	-	-	2	630	1470	380	20120	28	72	4 X1300	2 X 1300
DMB50 346	29.33	163.80	56900	38900	-	-	3	500	1230	380	21500	21	66	6X 1200	2 X 1200
DMB63 245	35.30	193.38	62100	42400	-	-	2	630	1470	380	19120	25	72	6 X1300	2 X 1300
DMB63 344	39.10	214.2	72719	49332	-	-	3	630	2205	380	30180	28	72	4X 1800	2 X 1800

Model	Inlet Pipe OD		Outlet OD		Dimension							Drain Qty	Weigh Approx	
	mm	inch	mm	inch	L	H	W	A	H1	W1	K	Nos	Kg	Lbs
DMB30 143	12	1/2	16	5/8	700	430	456	450	400	376	40	1	25	55.12
DMB30 144	12	1/2	16	5/8	700	430	456	450	400	376	40	1	30	66.14
DMB35 143	12	1/2	22	7/8	710	490	456	460	460	376	40	1	33	72.75
DMB30 243	12	1/2	22	7/8	1150	430	456	900	460	376	40	1	42	92.59
DMB30 244	12	1/2	22	7/8	1150	490	456	900	460	376	40	1	45	99.21
DMB35 243	12	1/2	28	11/8	1250	490	456	1000	460	376	40	1	52	114.64
DMB30 344	16	5/8	28	11/8	1600	430	456	1350	460	376	40	1	65	143.30
DMB35 244	16	5/8	28	11/8	1350	490	456	1100	460	376	40	1	55	121.25
DMB35 344	16	5/8	35	13/8	1630	490	456	1380	460	376	40	1	70	154.32
DBM35 346	16	5/8	35	13/8	1750	490	456	1500	460	376	40	1	75	165.35
DMB45 244	22	7/8	42	15/8	1850	680	556	1600	650	476	40	1	135	297.62
DMB45 247	22	7/8	42	15/8	1950	680	556	1700	650	476	40	1	140	308.65
DMB45 246	22	7/8	42	15/8	1850	680	556	1600	650	476	40	1	145	319.67
DMB50 246	22	7/8	42	15/8	1850	680	556	1600	650	476	40	1	152	335.10
DMB45 344	28	11/8	54	21/8	2650	680	556	2400	650	476	40	1	190	418.88
DMB50 248	28	11/8	54	21/8	1850	680	556	1600	650	476	40	1	210	462.97
DMB50 344	28	11/8	54	21/8	2650	680	556	2400	650	476	40	1	212	467.38
DMB63 244	28	11/8	54	21/8	2850	880	656	2600	850	576	40	1	215	473.99
DMB50 346	28	11/8	54	21/8	2650	680	556	2400	650	476	40	1	245	540.13
DMB63 245	28	11/8	54	21/8	2850	880	656	2600	850	576	40	1	225	496.04
DMB63 344	35	13/8	64	25/8	3850	880	656	3600	850	576	40	1	274	604.07

Note:

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DEW-COLD

DLB

LOW TEMPERATURE -1

Copper Tube 12MM

Geometry 35mmX 35mm

Fin Spacing - 6 mm

Model	Tube Volume	Area	Capacity (W)				Fans							Elec Defrost	
	(L)	(dm3)	SC1	SC2	SC3	SC4	Qty	Dia (mm)	Power (w)	Voltage (w)	Air Flow (m^3/h)	Air Throw (m)	Noise Level DB (A)	Coil (w)	Drain T Ray (w)
DLB30 162	1.12	4.20	2422	1652	1274	1050	1	300	88	220	1436	10	61	4 X 250	2 X250
DLB30 163	1.68	6.30	3382	2318	1780	1467	1	300	88	220	1368	9	61	4 X 250	2 X250
DLB30 262	2.03	8.40	4580	3160	2450	2040	1	350	118	220	2900	13	61	4X 300	2 X300
DLB30 263	2.99	11.20	6220	4210	3230	2560	2	300	176	220	2850	13	61	4 X 500	2X500
DLB30 264	4.48	16.80	7800	5400	4680	3260	2	300	176	220	2280	10	61	4 X 500	2 X500
DLB35 263	4.19	22.94	9900	6800	5200	4130	2	350	236	220	5200	13	63	4 X 700	2 X700
DLB35 264	5.88	32.20	13000	8900	6800	5400	3	300	264	220	5164	13	63	4 X 700	2 X 700
DLB30364	6.34	26.30	11900	8100	7100	5100	2	350	236	220	6412	10	61	4 X 1500	2 X 1500
DLB35 364	8.24	27.91	17984	12300	9405	7751	3	350	354	220	7500	13	63	4 X 1500	2 X 1500
DLB35 365	10.15	37.05	21499	14739	11303	9308	3	350	354	220	7040	13	64	8 X 1500	2 X 1500
DLB45 264	13.85	51.57	25074	17101	12380	10176	2	450	480	220	9370	16	68	6 X 800	2 X 800
DLB45 363	14.66	54.60	29379	20080	14566	12344	2	450	480	220	13580	17	66	6 X 1200	2 X 1200
DLB50 265	19.10	64.46	31177	21208	15135	12869	2	450	480	220	13080	17	68	8 X 1200	2 X 1200
DLB45 364	17.92	66.73	37065	25586	19719	16544	2	500	820	380	13200	15	68	8 X 1200	2 X 1200
DLB50 363	17.11	63.70	38700	26989	21384	17921	3	450	720	220	22500	21	68	8 X 1400	2 X 1400
DLB50 366	28.51	106.17	51400	35100	25100	21200	2	500	820	380	13080	18	68	8 X 1400	2 X 1400
DLB63 265	32.59	119.00	53990	36880	27916	23155	3	500	1230	380	20120	28	72	8 X 1200	2 X 1200
DLB63 265*	35.20	128.98	58463	39953	30243	24073	2	630	1470	380	20120	28	72	8 X 1300	2 X 1300
DLB63 364	39.10	142.80	68155	46594	34716	29052	3	500	1230	380	32180	28	73	10 X 1800	2 X 1800
DLB63 364*	41.27	150.73	71941	49182	36650	30666	2	630	1470	380	32300	29	72	10 X 1900	2 X 1900
DLB63 345	47.52	173.54	82826	56624	42190	35306	3	630	2205	380	29500	26	75	10 X 1750	2 X 1750

Model	Inlet Pipe OD		Outlet OD		Dimension							Drain Qty	Weigh Approx	
	mm	inch	mm	inch	L	H	W	A	H1	W1	K	Nos	Kg	Lbs
DLB30 162	12	1/2	16	5/8	700	430	456	450	400	376	40	1	26	57.32
DMB30 163	12	1/2	16	5/8	700	430	456	450	400	376	40	1	31	68.34
DMB30 262	12	1/2	22	7/8	1150	490	456	900	400	376	40	1	25	55.12
DLB30 263	12	1/2	22	7/8	1150	430	456	900	460	376	40	1	42	92.59
DLB30 264	12	1/2	28	11/8	1150	490	456	900	460	376	40	1	45	99.21
DMB35 263	12	1/2	28	11/8	1250	490	456	1000	460	376	40	1	54	119.05
DLB35 264	16	5/8	28	11/8	1250	490	456	1000	460	376	40	1	57	125.66
DLB30 364	16	5/8	28	11/8	1600	430	456	1350	460	376	40	1	67	147.71
DLB35 364	16	5/8	35	13/8	1630	490	456	1380	460	376	40	1	72	158.73
DLB35 365	16	5/8	35	13/8	1750	490	456	1380	460	376	40	1	78	171.96
DLB45 264	22	7/8	42	15/8	1950	680	556	1700	650	476	40	1	136	299.83
DLB45 363	22	7/8	42	15/8	1950	680	556	1700	650	476	40	1	140	308.65
DLB50 265	28	11/8	54	21/8	1950	680	556	1700	650	476	40	1	170	374.79
DLB45 364	28	11/8	54	21/8	2450	680	556	2200	650	476	40	1	190	418.88
DLB50 363	28	11/8	54	21/8	3050	680	556	2800	650	476	40	1	220	485.02
DLB50 365	28	11/8	54	21/8	3050	680	556	2800	650	476	40	1	225	496.04
DLB63 266	28	11/8	54	21/8	2650	880	656	2400	850	576	40	1	220	485.02
DLB63 265*	28	11/8	54	21/8	2850	880	656	2600	850	576	40	1	215	473.99
DLB63 364	28	11/8	64	25/8	3850	880	656	3600	850	576	40	1	280	617.29
DLB63 364*	28	11/8	64	25/8	4050	880	656	3800	850	576	40	1	270	595.25
DLB63 345	35	13/8	64	25/8	3750	880	656	3500	850	576	40	1	260	573.20

Note:

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DEW-COLD

DLB

LOW TEMPERATURE - 2

Copper Tube 12MM | Geometry 35mmX 35mm | Fin Spacing - 8 mm

Model	Tube Volume	Area	Capacity (W)				Fans							Elec Defrost	
	(L)	(dm3)	SC1	SC2	SC3	SC4	Qty	Dia (mm)	Power (w)	Voltage (w)	Air Flow (m^3/h)	Air Throw (m)	Noise Level DB (A)	Coil (w)	Drain T Ray (w)
DLB30 182	1.12	3.15	2135	1454	1121	924	1	300	88	220	1465	10	61	4 X 250	2 X250
DLB30 183	1.68	4.73	2976	2040	1566	1291	1	300	88	220	1395	9	61	4 X 250	2 X250
DLB30 282	2.03	6.30	4030	2780	2156	1795	2	300	176	220	2958	13	61	4X 300	2 X300
DLB30 283	2.99	8.40	5474	3705	2842	2253	2	300	176	220	2907	13	61	4 X 500	2X500
DLB30 284	4.48	12.60	6864	4752	4118	2869	2	300	176	220	2326	10	61	4 X 500	2 X500
DMB35 283	419	17.21	8712	5984	4576	3634	2	350	236	220	5304	13	63	4 X 700	2 X700
DLB35 284	5.88	24.15	11440	7832	5984	4752	2	350	236	220	5267	13	63	4 X 700	2 X 700
DLB30384	6.34	19.73	10472	7128	6248	4488	3	300	264	220	6540	10	61	4X 1500	2 X 1500
DLB35 384	8.24	20.93	15826	10824	8276	6821	3	350	354	220	7650	13	63	4 X 1500	2 X 1500
DLB35 385	10.15	27.79	18919	12970	9947	8191	3	350	354	220	7181	13	64	8 X 1500	2 X 1500
DLB45 284	13.85	38.68	22065	15049	10894	8955	2	450	480	220	9557	16	68	6 X 800	2 X 800
DLB45 383	14.66	40.95	25854	17670	12818	10863	3	450	720	220	13852	17	66	6 X 1200	2 X 1200
DLB50 265	19.10	48.35	27436	18663	13319	11325	2	500	820	380	13342	17	68	8 X 1200	2 X 1200
DLB45 384	17.92	50.05	32617	22516	17353	14559	3	450	480	220	13464	15	68	8 X 1200	2 X 1200
DLB50 383	17.11	47.78	34056	23750	18818	15770	3	500	1230	380	22950	21	68	8 X 1400	2 X 1400
DLB50 386	28.51	79.63	45232	30888	22088	18656	2	500	820	380	13342	18	68	8 X 1400	2 X 1400
DLB63 285	32.59	89.25	47511	32454	24566	20376	2	630	1470	380	20522	28	72	8 X 1200	2 X 1200
DLB63 285*	35.20	96.74	51447	35159	26614	21184	2	630	1470	380	20522	28	72	8 X 1300	2 X 1300
DLB63 384	39.10	107.10	59976	41003	30550	25566	3	630	2205	380	32824	28	73	10 X 1800	2 X 1800
DLB63 384*	41.27	113.05	63308	43280	32252	26986	3	630	2205	380	32946	29	72	10 X 1900	2 X 1900
DLB63 385	47.52	130.155	72887	49829	37127	31069	3	630	2205	380	30090	26	75	10 X 1750	2 X 1750

Model	Inlet Pipe OD		Outlet OD		Dimension							Drain Qty	Weigh Approx	
	mm	inch	mm	inch	L	H	W	A	H1	W1	K	Nos	Kg	Lbs
DLB30 182	12	1/2	16	5/8	700	430	456	450	400	376	40	1	25	55.12
DLB30 183	12	1/2	16	5/8	700	430	456	450	400	376	40	1	30	66.14
DLB30 282	12	1/2	22	7/8	1150	490	456	900	400	376	40	1	24	52.91
DLB30 283	12	1/2	22	7/8	1150	430	456	900	460	376	40	1	40	88.18
DLB30 284	12	1/2	28	11/8	1150	490	456	900	460	376	40	1	43	94.80
DMB35 283	12	1/2	28	11/8	1250	490	456	1000	460	376	40	1	53	116.84
DLB35 284	16	5/8	28	11/8	1250	490	456	1000	460	376	40	1	55	121.25
DLB30384	16	5/8	28	11/8	1600	430	456	1350	460	376	40	1	64	141.10
DLB35 384	16	5/8	35	13/8	1630	490	456	1380	460	376	40	1	69	152.12
DLB35 385	16	5/8	35	13/8	1750	490	456	1380	460	376	40	1	75	165.35
DLB45 284	22	7/8	42	15/8	1950	680	556	1700	650	476	40	1	133	293.21
DLB45 383	22	7/8	42	15/8	1950	680	556	1700	650	476	40	1	137	302.03
DLB50 265	28	11/8	54	21/8	1950	680	556	1700	650	476	40	1	166	365.97
DLB45 384	28	11/8	54	21/8	2450	680	556	2200	650	476	40	1	186	410.06
DLB50 383	28	11/8	54	21/8	3050	680	556	2800	650	476	40	1	215	473.99
DLB50 386	28	11/8	54	21/8	3050	680	556	2800	650	476	40	1	224	493.83
DLB63 285	28	11/8	54	21/8	2650	880	656	2400	850	576	40	1	217	478.40
DLB63 285*	28	11/8	54	21/8	2850	880	656	2600	850	576	40	1	213	469.58
DLB63 384	28	11/8	64	25/8	3850	880	656	3600	850	576	40	1	272	599.66
DLB63 384*	28	11/8	64	25/8	4050	880	656	3800	850	576	40	1	265	584.22
DLB63 385	35	13/8	64	25/8	3750	880	656	3500	850	576	40	1	260	573.20

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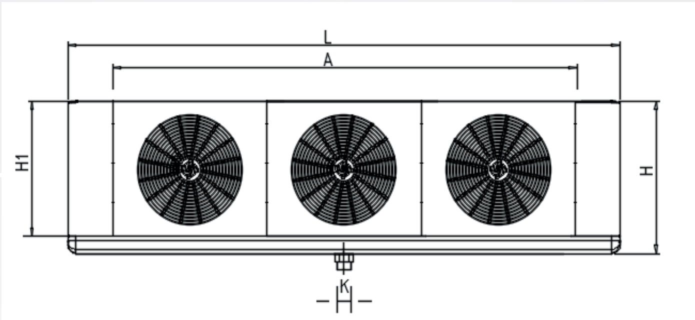
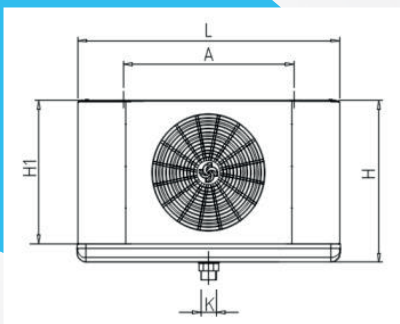
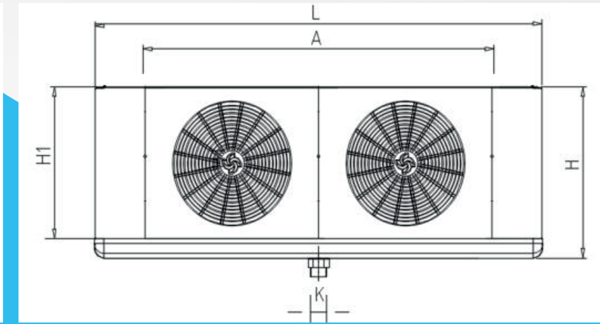
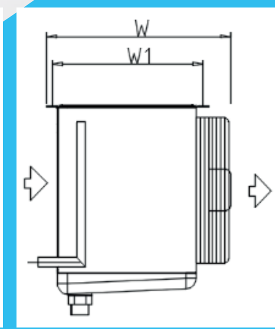
DIMENSION









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