



***Freon Unit Coolers for Ripening Chamber,
Chiller Room, Freezer Room & Walkin Cold Room***



www.bluecoldref.com

Key Features

Manufactured with cutting edge technology and 3D modeled compact design with easy servicing facilities, Blue Cold unit coolers ensures to deliver desired temperature and long lasting performance.



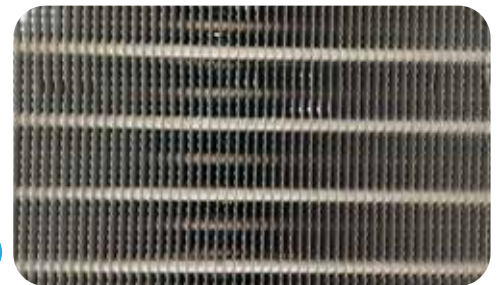
Extrusion for high air throw

Aluminium powder coated, SS 304 & GI powder coated body option



Rippled fin edges for creating turbulence in air flow and better heat transfer

Fin spacing from 4 mm to 10 mm to reduce frost formation

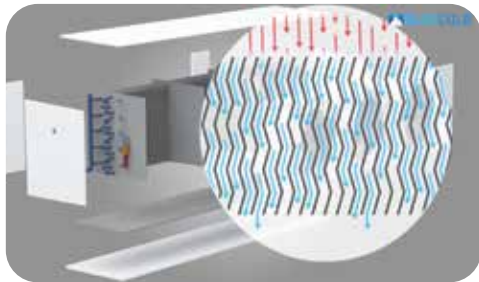


Bullet expansion on tubes

Smart coil circuitry for low pressure drop



Key Features



Sine wave fin structure for efficient cooling

Double drip tray for low condensation to minimise air leakage

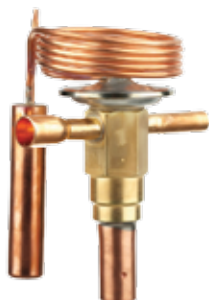


Our scope of supply on freon units



Axial fans or tube axial fans

Defrosting system with electric, water or hotgas for freezer room



Expansion valve (on demand)

Fan streamer to increase air throw(on demand)



Related Industries



Ice Cream



Meat & Poultry



Fish & Sea Food



Dairy



Pharmaceutical



Fruits & Vegetables



Banana Ripening Chamber



Mushroom Growing Room



Flower



Curd Blast Chiller



Frozen Foods



Multi Commodity

Blue Cold Select+ Selection Software

BLUECOLD REFRIGERATION

ISO 9001 : 2015 Certified Design and Manufacturing
TUV NORD Certified - European Machinery Directive EC 2006/42 European Refrigeration System Standard - EN1382

Welcome BlueCold

Air Cooled Condenser
Vertical (BCV), Horizontal (BCH) and V-Shaped (BCW) Condenser

Air Cooled Condensing Unit
ECO Series

BEC
BlueCold Evaporative Condenser

BF2
Frost Blast Freezer-Floor Mount

BHN
Frost Blast Freezer-Ceiling Mount

BHNA
Ammonia Blast Freezer

BLC
High Efficiency Frost Unit Cooler

BLCA
High Efficiency Ammonia Unit Cooler

BSL/BSN
Frost Dual Discharge Unit Cooler

Water Cooled Condensing Unit
ECO Series

BLUECOLD REFRIGERATION

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Welcome BlueCold

Application: **Freezing**
Evaporator Temp (°C): **-27**
Refrigerant: **R404A**
Condensing Temp (°C): **35**
Subcooling Temp (°C): **48**
Air Flow (m³/hr): **10143**
Air Throw (m): **12**
Super Heat (K): **5**

Coil Details:

Coil	Surface Area (m²)	Tube Volume (l)	Casing	MOC of Tubes	MOC of Fins	Fin Spacing (mm)	Inlet Connection (mm)	Outlet Connection (mm)	Dry Weight (kg)	Drain Outlet (Inch)	Maximum operating pressure (Bar)
Coil 1	51.5	9.6	AlMg. Powder Coated	Copper	Aluminum	6	22.2	28.57	91	5/8"	32

Defrosting:

Defrosting Coil Heater Power (watts): **4800**
Drain Tray Heater power (watts): **1200**
Total Heater Power (watts): **6000**

Estimated shipping Date: **17-Nov-2019**
Price (Including of taxes, duties and freight): **Rs. 1,34,000 (34K)**

Dimensions:

L(mm) = 2355
C(mm) = 160
E(mm) = 660
H(mm) = 342
F(mm) = 414

BLUECOLD REFRIGERATION

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Welcome BlueCold

Product:

Evaporator (dw): **BLC 640-H.3-E**
Cooling Cap (kW): **10.8**
Refrigerant: **R404A**
Evap. Temp (°C): **-27**
Air Inlet (°C): **-30**
Condensing (°C): **35**
Subcooling Temp (°C): **48**
Air Flow (m³/hr): **10143**
Air Throw (m): **12**
Super Heat (K): **5**

Fan Details:

No. of Fans: **3**
Fan Dia (mm): **400**
Power Supply: **1 Phase, 230 V, 50 Hz**
Noise Pressure Level: **57 dB (A) in 3 m**
Electric Power (W): **320**
Speed (RPM): **1340**

Coil:

Surface Area (m²): **51.5**
Tube Volume (l): **9.6**
Casing: **AlMg. Powder Coated**
MOC of Tubes: **Copper**
MOC of Fins: **Aluminum**
Fin Spacing (mm): **6**
Inlet Connection (mm): **22.2**
Outlet Connection (mm): **28.57**
Dry Weight (kg): **91**
Drain Outlet (Inch): **5/8"**
Maximum operating pressure (Bar): **32**

Defrosting:

Defrosting Coil Heater Power (watts): **4800**
Drain Tray Heater power (watts): **1200**
Total Heater Power (watts): **6000**

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Blue Cold Heat Load Calculation Software

Blue Cold App

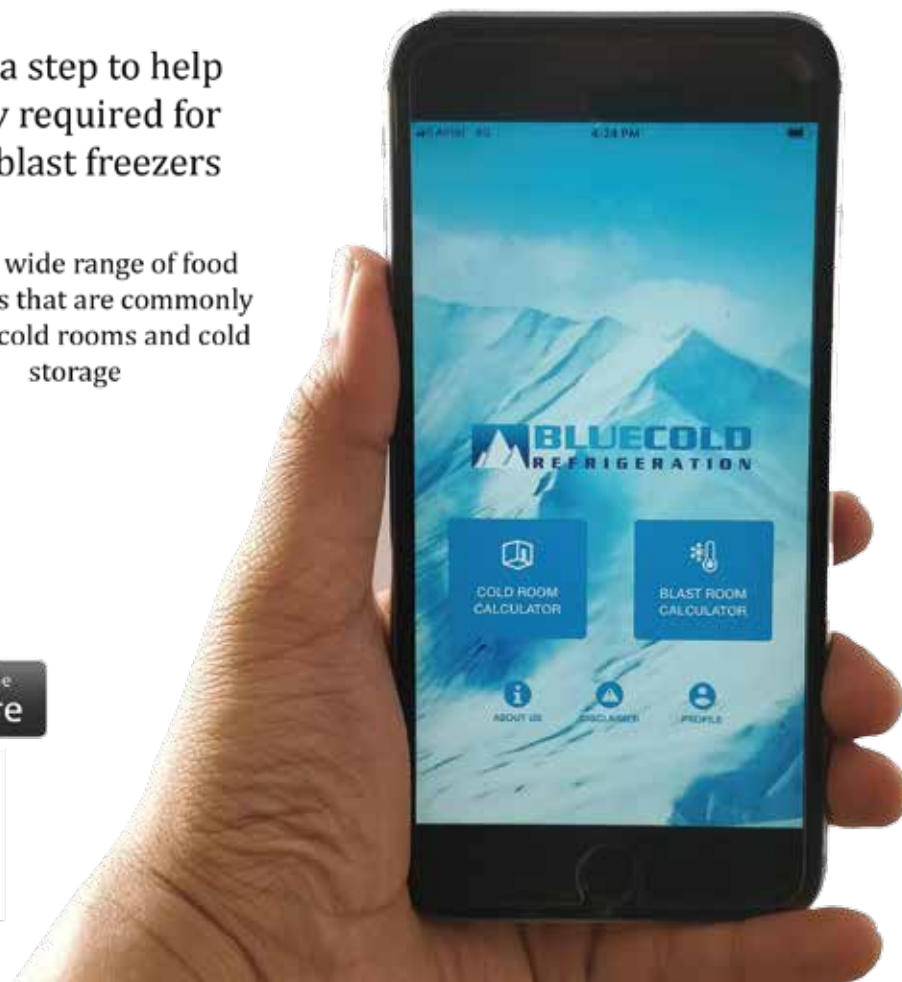
The 'Blue Cold' application is a step to help in calculating cooling capacity required for cold rooms, cold storage and blast freezers

Designed based on ASHRAE handbook & guidelines

Covers wide range of food products that are commonly used in cold rooms and cold storage

Heat Load report contains breakup of product load, transmission load, infiltration load and internal load

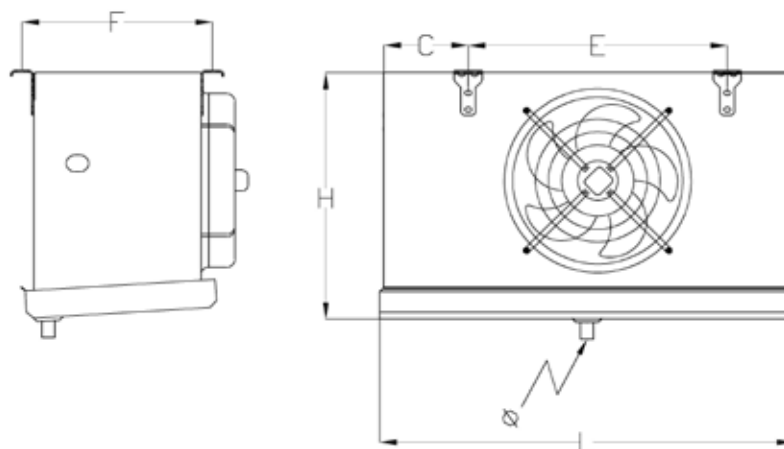
Heat Load report can be shared directly from this app with your own letter head



Nomenclature

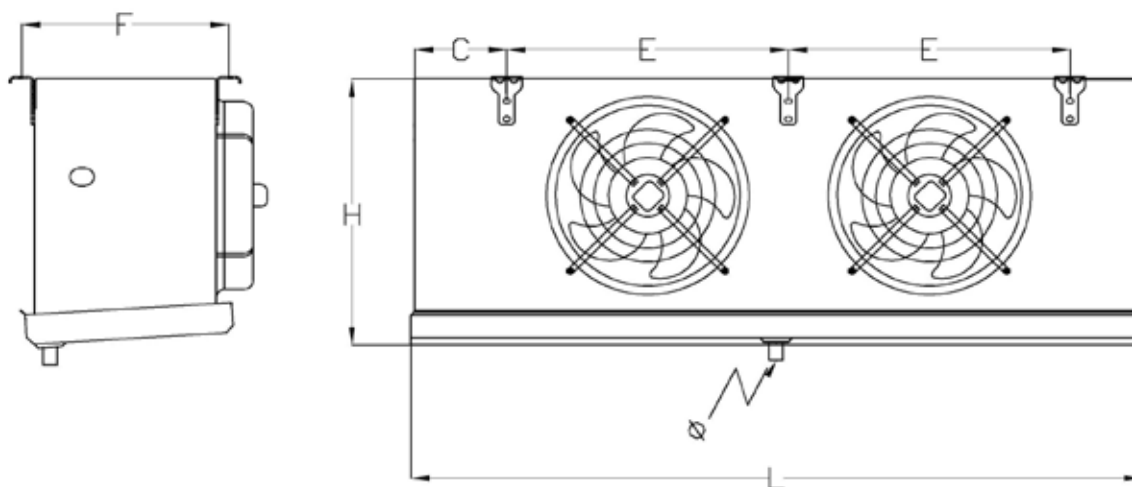
Blue Cold Freon unit coolers	BLC
Fin Spacing (in mm)	4 / 6 / 7 / 8 / 10
Fan Size (400, 450, 500, 550, 630, 710, 800 & 900 mm Dia)	30 / 35 / 40 / 45 / 50 / 55 / 63
Coil Type	M / H / I / K
No. of Fans	1 / 2 / 3 / 4

Technical Specification: Single Fan Cooler



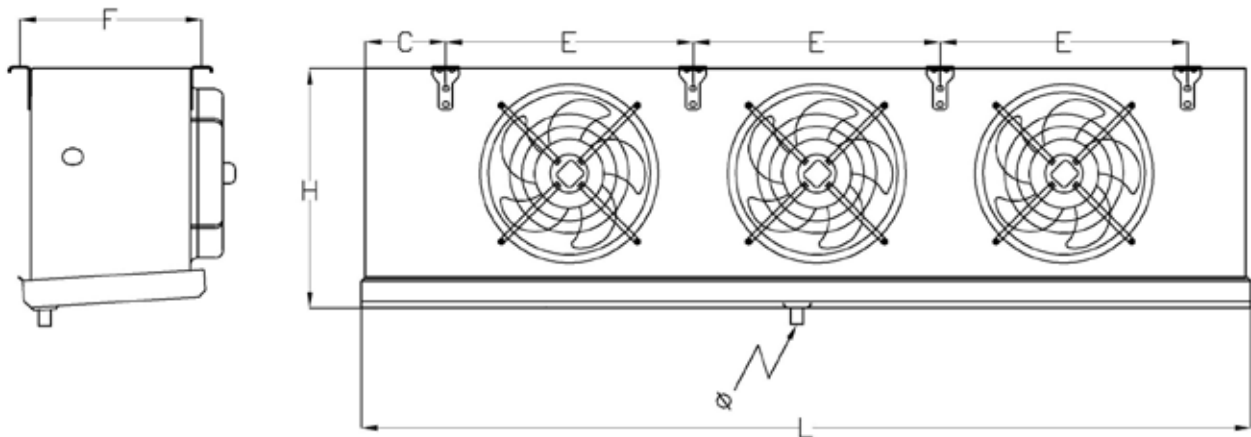
	Nominal Capacity (KW) R404a						Electrical defrost (W)							Dimension				
BLC	DT1=8k, to= (-)8 deg C	DT1=7k, to= (-)25 deg C	Air flow (m3/hr)	Air Throw (m)	Surface area (m2)	Tube Volume(l)	Coil	Drip tray	Total	Refrigerant Inlet	Refrigerant Outlet	Noise pressure level(db)	Weight (Kg)	L (mm)	C (mm)	E (mm)	H (mm)	F (mm)
4 mm fin spacing																		
430-M.1	2.2	1.7	1754	9	9.1	1.5	940	500	1440	16	18	45	20	735	150	460	442	339
430-H.1	2.9	2.2	1607	8	13.6	2.2	940	500	1440	16	18	45	23	735	150	460	442	339
430-L.1	3.4	2.5	1449	8	18.1	2.9	1410	500	1910	16	18	45	25	735	150	460	442	339
440-M.1	4.2	3.2	3402	11	16.8	2.5	1080	700	1780	16	18	52	32	995	160	680	542	414
440-H.1	5.6	4.4	3234	11	25.1	3.7	1620	700	2320	16	22	52	37	995	160	680	542	414
440-L.1	6.6	5.1	3077	11	33.5	4.9	2160	700	2860	16	22	52	40	995	160	680	542	414
450-M.1	8.7	6.3	6988	19	33.8	6.9	3450	1300	4750	16	22	60	56	1345	197	1000	742	494
450-H.1	12.1	9.3	6699	18	49.5	10.6	3450	1300	4750	16	22	60	65	1345	197	1000	742	494
450-L.1	14.6	10.8	6431	18	66.1	13.5	4275	1300	5575	16	22	60	73	1345	197	1000	742	494
6 mm fin spacing																		
630-M.1	1.9	1.5	1796	9	6.2	1.5	940	500	1440	16	18	45	20	735	150	460	442	339
630-H.1	2.5	2.0	1712	8	9.3	2.2	940	500	1440	16	18	45	23	735	150	460	442	339
630-L.1	3.0	2.3	1628	8	12.4	2.9	1410	500	1910	16	18	45	25	735	150	460	442	339
640-M.1	3.5	2.7	3497	11	11.4	2.5	1080	700	1780	16	18	52	33	995	168	680	542	414
640-H.1	4.8	3.8	3381	11	17.2	3.7	1620	700	2320	16	18	52	37	995	168	680	542	414
640-L.1	5.8	4.6	3266	11	22.9	4.9	2160	700	2860	16	22	52	40	995	168	680	542	414
650-H.1	10.3	7.8	6820	19	33.1	10.6	3450	1300	4750	16	22	60	65	1345	197	1000	742	494
650-L.1	12.4	9.4	6630	18	44.3	13.5	4275	1300	5575	16	22	60	73	1345	197	1000	742	494

Technical Specification: Two Fans Cooler



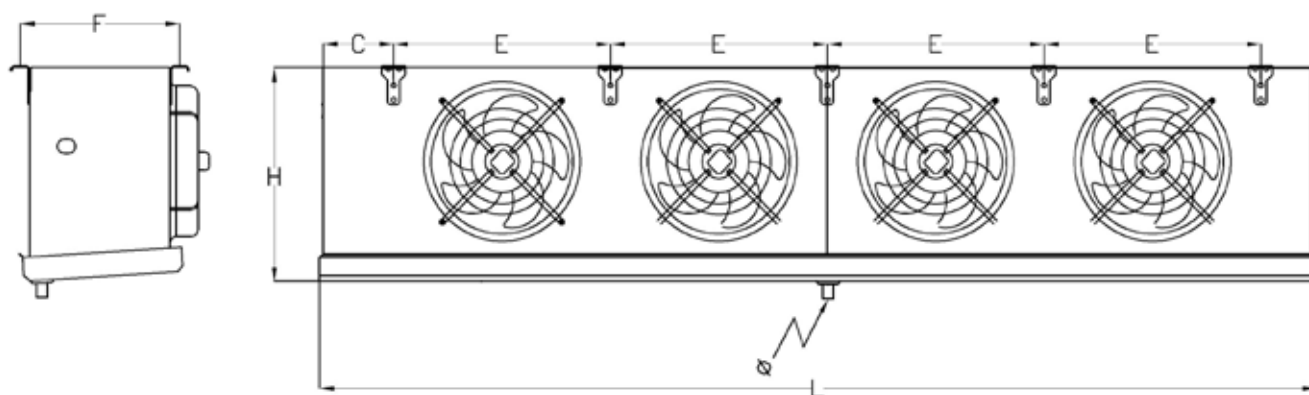
	Nominal Capacity (KW) R404a						Electrical defrost (W)						Dimension					
BLC	DT1=8k, to= (-) 8 deg C	DT1=7k, to= (-) 25 deg C	Air flow (m3/hr)	Air Throw (m)	Surface area (m2)	Tube Volume(l)	Coil	Drip tray	Total	Refrigerant Inlet	Refrigerant Outlet	Noise pressure level(db)	Weight (KG)	L (mm)	C (mm)	E*2 (mm)	H (mm)	F (mm)
4 mm fin spacing																		
430-M.2	4.5	3.4	3507	9	18.1	2.5	1720	650	2370	16	18	48	34	1190	150	460	442	339
430-H.2	5.9	4.5	3213	8	27.2	3.8	1720	650	2370	16	22	48	38	1190	150	460	442	339
430-L.2	6.7	5.1	2898	8	36.3	5.0	2580	650	3230	16	22	48	42	1190	150	460	442	339
440-M.2	8.3	6.4	6804	11	33.5	4.4	2900	1200	4100	16	28	55	54	1675	160	680	542	414
440-H.2	11.2	8.7	6468	11	50.3	6.6	4350	1200	5550	22	28	55	62	1675	160	680	542	414
440-L.2	13.3	10.4	6153	11	67.0	8.8	5800	1200	7000	22	35	55	69	1675	160	680	542	414
450-M.2	17.5	12.9	13976	18	67.4	13.4	7000	2400	9400	22	35	60	106	2345	197	1000	742	494
450-H.2	24.4	18.3	13398	18	101.0	20.8	7000	2400	9400	28	42	60	124	2345	197	1000	742	494
450-L.2	29.0	21.9	12863	18	134.7	26.6	8750	2400	11150	28	42	60	143	2345	197	1000	742	494
6 mm fin spacing																		
630-M.2	3.8	2.9	3591	9	12.4	2.5	1720	650	2370	16	18	48	35	1190	147	460	442	339
630-H.2	5.0	4.0	3423	8	18.6	3.7	1720	650	2370	16	18	48	38	1190	147	460	442	339
630-L.2	6.1	4.7	3255	8	24.8	5.0	2580	650	3230	16	22	48	42	1190	147	460	442	339
640-H.2	9.6	7.7	6762	11	34.3	6.6	4350	1200	5550	22	28	55	62	1675	160	680	542	414
640-L.2	11.7	9.3	6531	11	5.8	8.8	5800	1200	7000	22	28	55	70	1675	160	680	542	414
650-H.2	19.8	15.5	13671	18	69.5	20.6	7000	2400	9400	28	35	60	127	2345	197	1000	735	494
650-L.2	24.5	19.1	13209	18	92.6	26.6	8750	2400	11150	28	42	82	146	2345	197	1000	735	494
650-K.2	28.2	22.3	12779	18	115.8	33.8	10500	2400	12900	28	42	60	165	2345	197	1000	735	494

Technical Specification: Three Fan Cooler

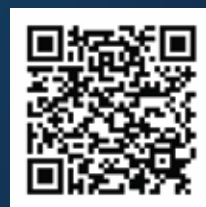


	Nominal Capacity (KW) R404a						Electrical defrost (W)							Dimension				
BLC	DT1=8k, to= (-) 8 deg C	DT1=7k, to= (-) 25 deg C	Air flow (m3/hr)	Air Throw (m)	Surface area (m2)	Tube Volume(l)	Coil	Drip tray	Total	Refrigerant Inlet	Refrigerant Outlet	Noise pressure level(db)	Weight (KG)	L (mm)	C (mm)	E*3 (mm)	H (mm)	F (mm)
4 mm fin spacing																		
430-M.3	6.0	4.5	4980	10	27.3	3.7	2175	1200	3375	16	28	49	47	1650	150	460	442	339
430-H.3	8.8	6.6	4830	9	40.8	5.4	2900	1200	4100	16	28	49	53	1650	150	460	442	339
430-L.3	10.1	7.2	4358	9	54.4	7.1	4350	1200	5550	16	28	49	59	1650	150	460	442	339
440-M.3	11.7	8.8	9920	13	50.5	6.7	4800	1200	6000	22	35	57	89	2355	160	680	542	414
440-H.3	17.0	12.8	9702	12	75.4	9.6	4800	1200	6000	22	35	57	89	2355	160	680	542	414
440-L.3	20.2	15.4	9230	12	100.5	12.7	6400	1200	7600	22	35	57	100	2345	160	680	542	414
450-M.3	26.5	19.4	20900	20	101.1	19.4	7000	1600	8600	28	35	60	160	3345	197	1000	735	494
450-H.3	36.5	27.5	20097	19	151.6	30.5	9600	3200	12800	28	54	61	179	3345	197	1000	735	494
450-L.3	43.8	33.3	19299	19	202.1	40.4	12000	3200	15200	35	54	61	207	3345	197	1000	735	494
6 mm fin spacing																		
630-M.3	5.2	3.9	5300	10	18.7	3.7	2175	1200	3375	16	28	49	47	1650	150	460	442	339
630-H.3	7.7	6.0	5135	9	27.9	5.3	2900	1200	4100	16	22	49	54	1650	150	460	442	339
630-L.3	9.1	7.2	4883	9	37.1	7.1	4350	1200	5550	22	28	49	60	1650	150	460	442	339
640-H.3	14.5	11.3	10143	12	51.5	9.6	4800	1200	6000	22	35	57	90	2355	160	680	542	414
640-L.3	17.5	13.8	9797	12	68.6	12.7	6400	1200	7600	22	35	57	102	2345	160	680	542	414
650-H.3	34.5	26.3	20153	19	128.3	33.4	8400	2400	10800	22	35	57	198	3345	197	1000	735	494
650-L.3	37.0	29.0	19814	19	138.9	40.3	12000	3200	15200	35	54	61	210	3345	197	1000	735	494
650-K.3	42.5	33.5	19173	19	173.6	50.2	14400	3200	17600	35	54	61	239	3345	197	1000	735	494

Technical Specification: Four Fan Cooler



	Nominal Capacity (KW) R404a						Electrical defrost (W)							Dimension				
BLC	DT1=8k, to= (-)8 deg C	DT1=7k, to= (-)25 deg C	Air flow (m3/hr)	Air Throw (m)	Surface area (m2)	Tube Volume(l)	Coil	Drip tray	Total	Refrigerant Inlet	Refrigerant Outlet	Noise pressure level(db)	Weight (KG)	L (mm)	C (mm)	E*4 (mm)	H (mm)	F (mm)
4 mm fin spacing																		
430-H.4	11.8	9.0	6437	9	54.4	7.0	4000	1150	5150	22	35	51	79	2110	150	460	442	339
430-L.4	13.4	10.4	5807	9	72.5	9.2	6000	1150	7150	22	35	51	90	2110	150	460	442	339
440-H.4	22.4	15.6	12936	12	100.5	12.7	6900	2200	9100	28	42	59	128	3035	160	680	542	414
440-L.4	26.9	19.2	12306	12	134.0	16.8	9200	2200	11400	28	42	59	148	3035	160	680	542	414
450-M.4	35.0	25.8	27900	21	134.8	132.0	10000	1800	11800	28	42	63	205	4345	197	1000	742	494
450-H.4	47.7	33.4	26796	20	202.1	39.7	14000	3600	17600	28	54	63	235	4345	197	1000	742	494
450-L.4	57.8	41.2	25736	20	269.4	52.7	17500	3600	21100	35	54	63	271	4345	197	1000	742	494
6 mm fin spacing																		
630-H.4	10.2	8.0	6846	9	37.1	6.9	4000	1150	5150	22	28	51	71	2110	150	460	442	339
630-L.4	12.2	9.6	6510	9	49.5	9.2	6000	1150	7150	22	28	51	89	2110	150	460	442	339
640-H.4	19.2	14.2	13524	12	68.6	12.6	6900	2200	9100	22	42	59	120	3035	160	680	542	414
640-L.4	23.5	17.5	13062	12	91.5	16.7	9200	2200	11400	22	42	59	145	3035	160	680	542	414
650-H.4	41.9	31.3	22455	18	157.4	0.0	14800	3050	17850	42	54	61	236	4345	197	1000	735	494
650-L.4	49.4	36.9	26418	20	185.2	52.8	17500	3600	21100	42	54	63	277	4345	197	1000	735	494
650-K.4	57.0	42.8	25568	20	231.5	54.3	21000	3600	24600	42	64	63	314	4345	197	1000	735	494



Blue Cold Refrigeration Pvt. Ltd.

C-37, 1st Main, 3rd Cross, Bommasandra Industrial Area,
Hosur Main Road, Bangalore (KA) 560 099

Mobile: +91 9341 980404; +91 9632 105577 Landline: +91 80 27831158

Email: sales@bluecoldref.com; Website: www.bluecoldref.com