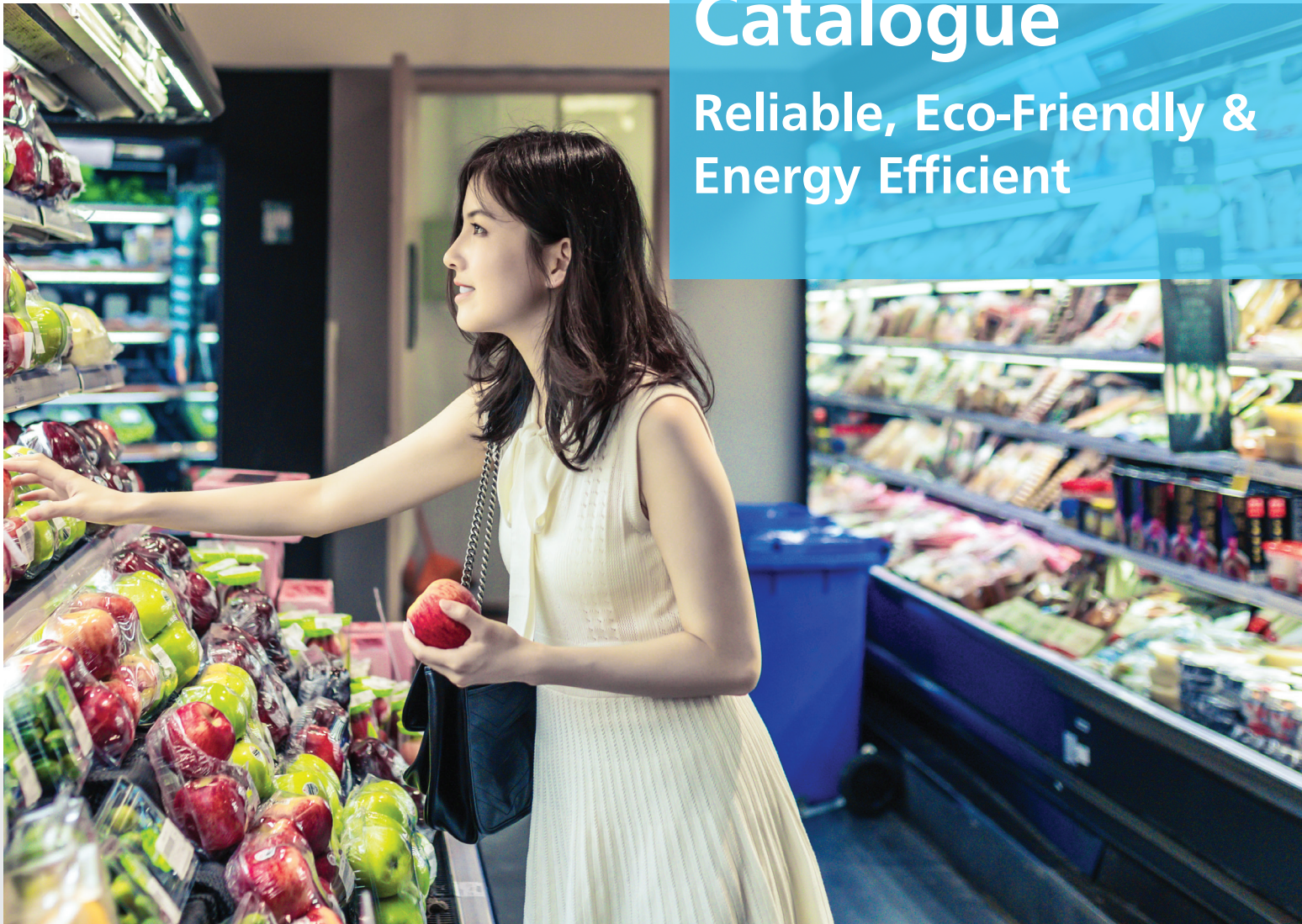




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Cold Room Catalogue

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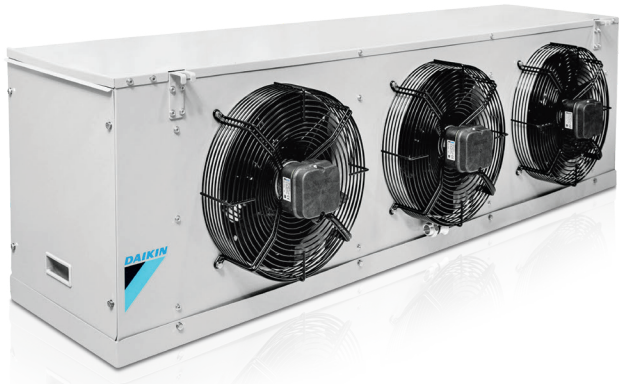
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DAIPL2024/24-7/ColdRoom-1B



COLD ROOM UNITS

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COMMERCIAL CONDENSING UNITS



THE PERFECT CHOICE WITH MORE THAN 100 YEARS OF REFRIGERATION EXPERIENCE AND IDEAL SOLUTION FOR COMMERCIAL REFRIGERATION.

Daikin Reciprocating and Scroll commercial refrigeration units create the perfect answer for those demanding a compact and efficient unit. The units are the ideal solution for commercial refrigeration sectors where noise, size and reliability are paramount.

Housed in a cabinet made of electro-galvanised mild steel with an anti-corrosion treatment and coated in baked polyester powder paint, units are able to withstand the most stringent weather testing. The integral IP54 rated control panel provides further protection to all essential electrical components.

All units are acoustically lined. The Scroll units house the extremely efficient Copeland scroll compressor and the standard reciprocating range house a highly reliable reciprocating compressor.

All condensing units come complete with all components fitted during manufacture to save the installer time and money. Reciprocating and Scroll condensing units are available for both medium and low temperature applications.

SCROLL

On all models

- R404A refrigerant (Medium temperature units can also operate on R134a, if required.)
- Robust weather-resistant housing
- Highly reliable Copeland scroll compressor
- Liquid receiver/Accumulator
- HP/LP pressure safety switch
- Liquid line with sight glass and filter drier factory-fitted
- IP54 rated control panel
- Noise data tested
- Oil separator and check valve for low temperature models
- Externally mounted service valves for easy isolation and an extended tail for easy installation
- Crankcase heater**
- Phase preventor

RECIPROCATING

On all models

- R404A refrigerant
- Robust weather-resistant housing
- Highly reliable hermetic compressor
- Liquid receiver/Accumulator
- HP/LP pressure safety switch
- Liquid line with sight glass and filter drier factory-fitted
- IP54 rated control panel
- Noise data tested
- Oil separator and check valve for low temperature models
- Externally mounted service valves for easy isolation and an extended tail for easy installation
- Phase preventor
- Crankcase heater**



Condensing Units

(a) Specifications

Model	Electrical Data	Compressor								
	Power Input	Type	Swept Volume (m³/hr)	Oil Type	Oil Charge(Ltr)	Operating Current (A)*	MCC (A)**	LRC (A)	No.	FLC (A)
CCMR0200ARY16	415V/3~/50Hz	KCM511-CAL	7.2	POE	1.33	3.5	4.5	20	1	1
CCMR0300ARY16	415V/3~/50Hz	KCM522-CAL	12.8	POE	1.33	7.0	8.0	45	1	1
CCMS0400ARY16	415V/3~/50Hz	ZB29KQE-TFD	11.4	POE	1.36	10.0	11.0	50	1	2.75
CCMS0600ARY16	415V/3~/50Hz	ZB45KQE-TFD	17.1	POE	1.77	13.1	14.2	74	1	2.75
CCMS0800ARY16	415V/3~/50Hz	ZB58KQE-TFD-550	22.1	POE	2.51	15.9	23.0	95	2	2.5
CCMS1000ARY16	415V/3~/50Hz	ZB76KQE-TFD-550	29.1	POE	3.25	20.4	28.0	118	2	2.5
CCLR0200ARY16	415V/3~/50Hz	KCM512-LAL	14.7	POE	1.33	7.0	8.0	45	1	1
CCLR0300ARY16	415V/3~/50Hz	KCM515-LAL	15.9	POE	1.30	7.0	8.0	45	1	1
CCLS0400ARY16	415V/3~/50Hz	ZF13K4E-TFD	11.7	POE	1.90	8.6	10.0	54.5	1	2.75
CCLS0600ARY16	415V/3~/50Hz	ZF18K4E-TFD	17.1	POE	1.90	10.5	12.5	74	1	3.7
CCLS0800ARY16	415V/3~/50Hz	ZF25KQE-TFD-550	21.4	POE	1.90	13.7	16.6	102	2	2.5
CCLS1000ARY16	415V/3~/50Hz	ZF34KQE-TFD-554	29.1	POE	3.37	22.0	25.0	100	2	2.5
CCHMS0400ARY16	415V/3~/50Hz	ZE55KME-TFM	8.3	POE	1.24	11.0	13.8	64	1	1
CCMX0150AV16	230V/1~/50Hz	KSF165S2VFPC3	2.97	VG74	0.410	5.7	7.0	37	1	0.65

Model	Coil Volume (Litre)	Condenser Airflow (m³/hr)	Accumulator/Receiver Volume (Litre)	Connection		Dimensions			Weight (kg)	Sound Pressure dBA at 1m***
				Liquid (Inch)	Suction (Inch)	Height (mm)	Width (mm)	Depth (mm)		
CCMR0200ARY16	2.0	4050	3.0	3/8	5/8	700	1025	410	73	62
CCMR0300ARY16	2.6	4050	3.0	3/8	5/8	700	1025	410	76	67
CCMS0400ARY16	4.4	7450	4.5	1/2	7/8	930	1025	410	94	71
CCMS0600ARY16	5.6	7450	4.5	1/2	7/8	930	1025	410	107	71
CCMS0800ARY16	7.7	17698	12.6	5/8	1-1/8	930	1650	620	167	73
CCMS1000ARY16	7.7	17698	12.6	5/8	1-1/8	930	1650	620	167	72
CCLR0200ARY16	2.6	4050	3.0	3/8	5/8	700	1025	410	78	68
CCLR0300ARY16	3.9	4050	3.0	3/8	5/8	700	1025	410	86	66
CCLS0400ARY16	4.4	7450	4.5	1/2	7/8	930	1025	410	108	71
CCLS0600ARY16	4.4	8100	4.5	1/2	7/8	930	1025	410	112	72
CCLS0800ARY16	7.7	17698	12.6	5/8	1-1/8	930	1650	620	133	72
CCLS1000ARY16	7.7	17698	12.6	5/8	1-1/8	930	1650	620	172	72
CCHMS0400ARY16	3.4	7450	3.25	3/8	5/8	990	940	350	85	61
CCHMX0150AV16	1.76	3120	1.2	1/4	1/2	595	845	300	41	56



(b) Performance Data

Model	HP	Te		Cooling Capacity (Watts)			
		Ta		-10	-5	0	5
CCMR0200ARY16	2	38		3279	3978	4730	5587
CCMR0300ARY16	3	38		4838	5805	6934	8159
CCMS0400ARY16	4	38		6472	7805	9342	11031
CCMS0600ARY16	6	38		8869	10589	12524	14642
CCMS0800ARY16	8	38		12150	15000	18300	22000
CCMS1000ARY16	10	38		16300	20000	24300	29200

Model	HP	Te		Cooling Capacity (Watts)				
		Ta		-5	0	5	10	15
CCHMX0150AV16	1.5	38		2645	3800	4424	5465	6589
CCHMS0400ARY16	4	38		8680	10450	12450	14600	17000

Model	HP	Te		Cooling Capacity (Watts)			
		Ta		-35	-30	-25	-20
CCLR0200ARY16	2	38		1247	1553	1914	2333
CCLR0300ARY16	3	38		1650	2048	2510	3042
CCLS0400ARY16	4	38		2446	3075	3816	4676
CCLS0600ARY16	6	38		3548	4408	5429	6558
CCLS0800ARY16	8	38		4289	5343	6525	7869
CCLS1000ARY16	10	38		5698	7031	8546	10288

Model	HP	Te		Power Consumption (Watts)			
		Ta		-10	-5	0	5
CCMR0200ARY16	2	38		1860	1900	1940	1979
CCMR0300ARY16	3	38		2930	2970	3020	3061
CCMS0400ARY16	4	38		3780	3830	3880	3929
CCMS0600ARY16	6	38		5700	5800	5950	6090
CCMS0800ARY16	8	38		7070	7090	7120	7130
CCMS1000ARY16	10	38		9000	9070	9130	9180

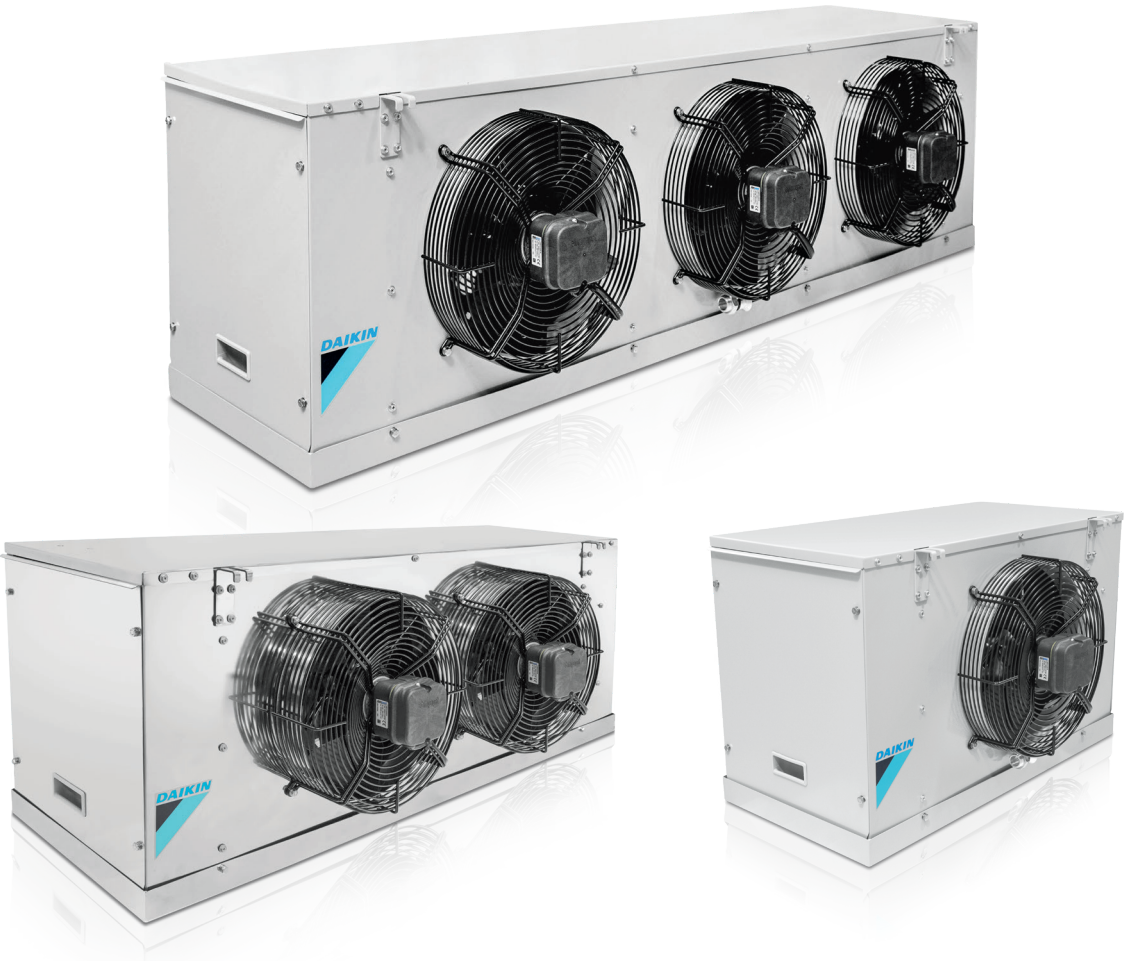
Model	HP	Te		Power Consumption (Watts)				
		Ta		-5	0	5	10	15
CCHMX0150AV16	1.5	38		1148	1178	1208	1198	1168
CCHMS0400ARY16	4	38		3770	3800	3850	3890	3920

Model	HP	Te		Power Consumption (Watts)			
		Ta		-35	-30	-25	-20
CCLR0200ARY16	2	38		1690	1780	1870	1980
CCLR0300ARY16	3	38		2080	2140	2230	2330
CCLS0400ARY16	4	38		2680	2790	2920	3050
CCLS0600ARY16	6	38		3860	4060	4280	4510
CCLS0800ARY16	8	38		4968	5318	5658	6008
CCLS1000ARY16	10	38		6528	7088	7648	8228

AIR COOLING UNIT

Product Features

- Can be used with refrigerants R404A, R134a, R507A and R410A
- DX evaporator coil, with shredder valve soldered into suction line for ease of superheat measurement
- GI casing with pre-coated paint and SS - 304 casing
- IP44 Axial fan with moisture-proof protected
- Heaters can be slotted for defrosting in medium temperature models also
- Pre-fixed wiring to fan motor



Medium Temperature
(a) Specifications

Model		CRE1M400ASV16	CRE2M600ASV16	CRE2M800ASV16	CRE3M980ASV16	CRE3M1400ASV16	CRE2M1700ASV16	CRE2M2200ASY16	CRE2M2800ASY16	CRU2M1700ASY16	CRU2M2200ASY16	CRU2M2800ASY16
Sound Pressure Level	dBA	67	68	68	70	70	75	75	75	75	75	75
General	Size [LxWxH] (mm/mm/mm)	745x560x515	1205x560x515	1205x560x515	1665x560x515	1665x560x515	2400x555x720	2400x555x720	2400x555x720	2400x555x720	2400x555x720	2400x555x720
	Weight (kg)	35	52	61	67	78	119	140	155	119	140	155
	Room Temperature (°C)	0~15	0~15	0~15	0~15	0~15	0~15	0~15	0~15	0~15	0~15	0~15
	Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A
	Power Supply	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz
	Max Operating Pressure (Bar)	28	28	28	28	28	28	28	28	28	28	28
Fan	Airflow (m³/h)	2350	4700	4700	7050	7050	17150	16700	17150	16700	16700	16200
	Air Throw (m)	10	13	13	15	15	19	18	19	18	18	18
	Fan Size (mmxQty)	350x1	350x2	350x2	350x3	350x3	550x2	550x2	550x2	550x2	550x2	550x2
	Fan Speed (rpm)	1380	1380	1380	1380	1380	1400	1400	1400	1400	1400	1400
	Running Current (A)	0.65	1.30	1.30	1.95	1.95	2.3	2.3	2.3	2.3	2.3	2.3
	Power Consumption (W)	140	280	280	420	420	1000	1000	1000	1000	1000	1000
Connection Pipe Size (OD)	Outlet (mm)	12.7	15.88	22.22	22.22	28.56	28.56	34.92	28.56	28.56	34.92	34.92
	Inlet (mm)	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88	12.7	12.7	15.88

(b) Performance Data

Refrigerant		R404A				
Model	Te	-10	-8	-5	0	5
CRE1M400ASV16		4.13	4.19	4.31	4.62	4.97
CRE2M600ASV16		6.29	6.37	6.55	7.10	7.61
CRE2M800ASV16		8.58	8.69	8.94	9.62	10.11
CRE3M980ASV16		10.49	10.63	10.92	11.62	12.10
CRE3M1400ASV16		15.12	15.40	15.75	16.57	17.09
CRE2M1700ASV16		17.4	18	18.7	19.6	21.2
CRE2M2200ASY16		23.2	24	25.1	26.2	28.3
CRE2M2800ASY16		29.1	30	31.2	32.7	35.3

*DT1 = 8K
*DT1 = Air inlet temperature (Ta) - Evaporating temperature at the outlet (Te)
Refer same data for double circuit models (CRU series) also.

(c) High Medium Temperature Performance Data

Refrigerant		R32					
Model	Te	-8	-5	0	5	10	15
CRE1HM150ASV16		3.58	3.85	4.14	4.36	4.58	4.81
CRE1HM800ASV16		18.7	20.2	21.7	22.8	23.9	25

TD Correction Factor

Capacity at different TD can be calculated using the correction factor given in below table:

TD (K)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
Correction Factor	0.56	0.63	0.69	0.75	0.81	0.88	0.94	1.00	1.06	1.13	1.19	1.25

Low Temperature
(a) Specifications

Model		CRE1L200ASV16	CRE2L320ASV16	CRE2L400ASV16	CRE3L480ASV16	CRE3L600ASV16	CRE2L0900ASY16	CRE2L1400ASY16	CRE2L1800ASY16	CRU2L0900ASY16	CRU2L1400ASY16	CRU2L1800ASY16
Sound Pressure Level	dBA	67	68	68	70	70	75	75	75	75	75	75
General	Size [LxWxH] (mm/mm/mm)	745x560x515	1205x560x515	1205x560x515	1665x560x515	1665x560x515	2400x555x720	2400x555x720	2400x555x720	2400x555x720	2400x555x720	2400x555x720
	Weight (kg)	35	52	61	67	78	119	140	155	119	140	155
	Room Temperature (°C)	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5	-25~5
	Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A	R404A
	Power Supply	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz
	Max Operating Pressure (Bar)	28	28	28	28	28	28	28	28	28	28	28
Fan	Airflow (m³/h)	2350	4700	4700	7050	7050	17375	16975	16550	17375	16975	16550
	Air Throw (m)	10	13	13	15	15	19	18	18	19	18	18
	Fan Size (mmxQty)	350x1	350x2	350x2	350x3	350x3	550x2	550x2	550x2	550x2	550x2	550x2
	Fan Speed (rpm)	1380	1380	1380	1380	1380	1400	1400	1400	1400	1400	1400
	Running Current (A)	0.65	1.30	1.30	1.95	1.95	2.3	2.3	2.3	2.3	2.3	2.3
	Power (W)	140	280	280	420	420	1000	1000	1000	1000	1000	1000
Heater	Power (W) x Qty	600x3	800x3	800x3	1200x3	1200x3	1000x5	1000x5	1000x7	1000x5	1000x5	1000x7
	Total Power Consumption(W)	1800	2400	2400	3600	3600	5000	5000	7000	5000	5000	7000
Connection Pipe Size (OD)	Outlet (mm)	15.88	15.88	22.22	22.22	28.56	28.56	28.56	34.92	28.56	28.56	34.92
	Inlet (mm)	12.7	12.7	12.7	12.7	15.88	15.88	15.88	15.88	12.7	12.7	15.88

(b) Performance Data

Refrigerant		R404A				
Model	Te	-40	-35	-30	-25	-20
CRE1L200ASV16		1.62	1.8	1.99	2.18	2.36
CRE2L320ASV16		2.4	2.76	3.12	3.48	3.84
CRE2L400ASV16		2.98	3.44	3.9	4.36	4.81
CRE3L480ASV16		3.56	4.12	4.67	5.23	5.78
CRE3L600ASV16		4.41	5.12	5.83	6.54	7.24
CRE2L0900ASY16		6.9	8.1	9	10	11
CRE2L1400ASY16		10.5	12.1	13.5	15	16.5
CRE2L1800ASY16		13.9	16.2	18	20	22

*DT1 = 7K
*DT1 = Air inlet temperature (Ta) - Evaporating temperature at the outlet (Te)
Refer same data for double circuit models (CRU series) also.

TD Correction Factor

TD (K)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
Correction Factor	0.64	0.71	0.79	0.86	0.93	1.00	1.07	1.14	1.21	1.29	1.36



Notes

Notes