



D A T A S H E E T

Electronic Expansion Valves (EXV) provide precise control of refrigerant flow and system superheat in air-conditioning, refrigeration and heat pump application for various ambient conditions. Emerson DX1 series EXV is a highly reliable stepper motor driven expansion valve that offers precise control for a wide range of applications like condensing units, heat pumps, precision cooling, and transport air conditioning among others.

Key Features

- Compact and lightweight with hermetic valve body design
- Highly reliable under extreme applications, 100k full cycle qualified
- Precise expansion process control to enable stable system super heat
- Bi-directional flow characteristics applicable for heat pump system
- Optimum wide modulation range enables higher integrated part load efficiency

**General Specifications**

- Applicable for all common HFC, HFO mixture refrigerants such as R404A, R134a, R22, R32, R448A, R449A, R410A and R407C.
- Cooling Capacity: 6.2 to 34.0 kW (R410A nominal capacity)
- Certifications: UL
- **Valve Parameters**

Flow Direction	Bi-directional
Flow Characteristic	Non-linear
MWP	47 Bar
MPOD	Normal direction: 35 Bar Reverse direction: Up to 25 Bar (model specific)
Burst Pressure	188 Bar (1 minute without rupture)
Inlet Refrigerant Temperature	-30 ~ 70 °C
Ambient Temperature	-30 ~ 60 °C
Total Pulse	500 (560 ≤ for valve closing fully ≤ 600)
Opening Pulse	30 ± 20
Durability	Tested for 100K times full opening and closing
Weight	48 grams

- **Stator Parameters**

Type	5 wires uni-polar stepper motor
Excitation Speed	30~90 pps, 81.3 Hz recommended (1 pps = 1 pulse per second)
Supply Voltage	12 VDC (+/- 10%)
Nominal Opening Current @ 12 VDC	260 mA/phase
Resistance	46 Ω/phase (+/- 10%)
Insulation Class	E
Cable Length	1.5m, integrated with stator
Electrical Connection	JST XHP-5
Protection Level	IP67
Weight	129 grams

	DX1 Electronic Expansion Valve		Cooling Controls
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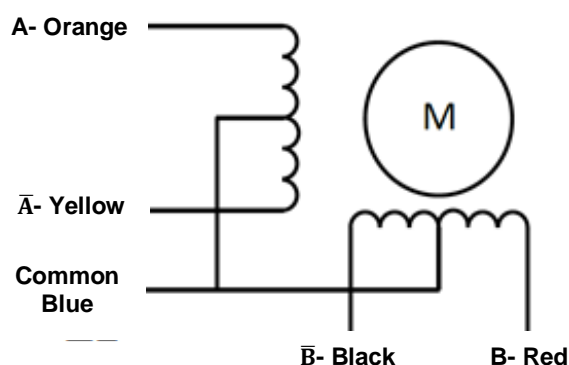
Ordering Information

	PCN	Model	Connection Solder Type		Direct MOPD (Bar)	Reverse MOPD (Bar)	Nominal Cooling Capacity* (kW)					
			A (mm)	B (mm)			R22	R410A	R134a	R407C	R32	R404A
Valve Body	098370	DX1-A13	6.35	6.35	35	25	5.3	6.2	4.1	5.6	9.1	3.8
	098371	DX1-A16					8.5	10.0	6.6	9.0	14.8	6.0
	098372	DX1-A18					10.3	12.1	8.0	11.0	17.8	7.3
	098373	DX1-A20					12.6	14.8	9.8	13.4	21.8	8.9
	098374	DX1-A22					15.2	17.8	11.9	16.2	26.3	10.8
	098375	DX1-A24					18.0	21.2	14.1	19.2	31.3	12.7
	098376	DX1-A28	8.00	8.00		15	24.6	28.9	19.2	26.2	42.6	17.4
	098377	DX1-A30					26.8	31.5	20.9	28.5	46.5	19.0
	098378	DX1-A32			28.9		34.0	22.6	30.7	50.0	20.5	
Stator	098379	DX1-SU157J	IP67, Cable length 1.5M, XHP-5 terminal									

*The nominal capacity is based upon the following standard ASERCOM conditions:

Refrigerant	Evaporating Temperature	Condensing Temperature	Sub-cooling (K)
R404A, R134a, R22, R32, R448A, R449A, R410A	+4°C	+38°C	1
R407C	+4°C dew point	+38°C bubble /+43°C dew point	1

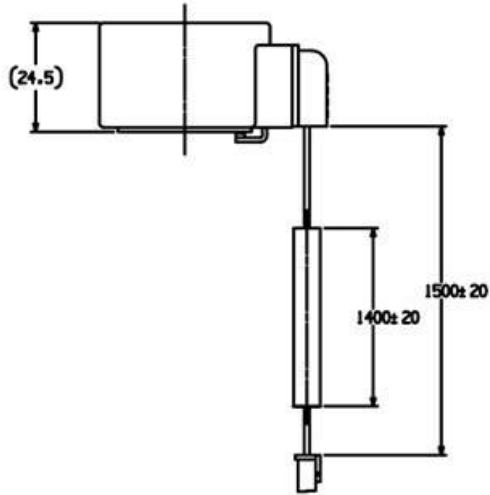
Stepper Motor Wiring and Valve Movement



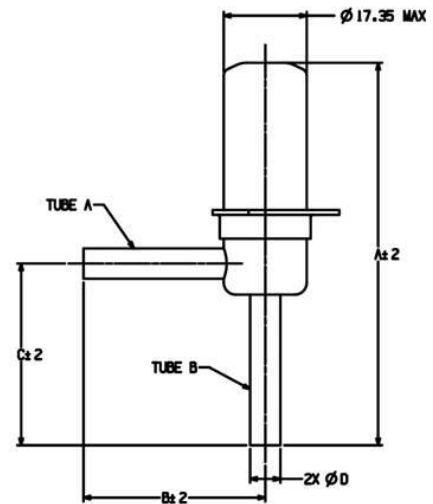
Wires	Valve Movement							
	Open: →				Close: ←			
A: Orange	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
B: Red	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
Ā: Yellow	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
B̄: Black	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Common: Blue	ON	ON	ON	ON	ON	ON	ON	ON

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Stator Dimensions (mm)



Valve Dimensions (mm)

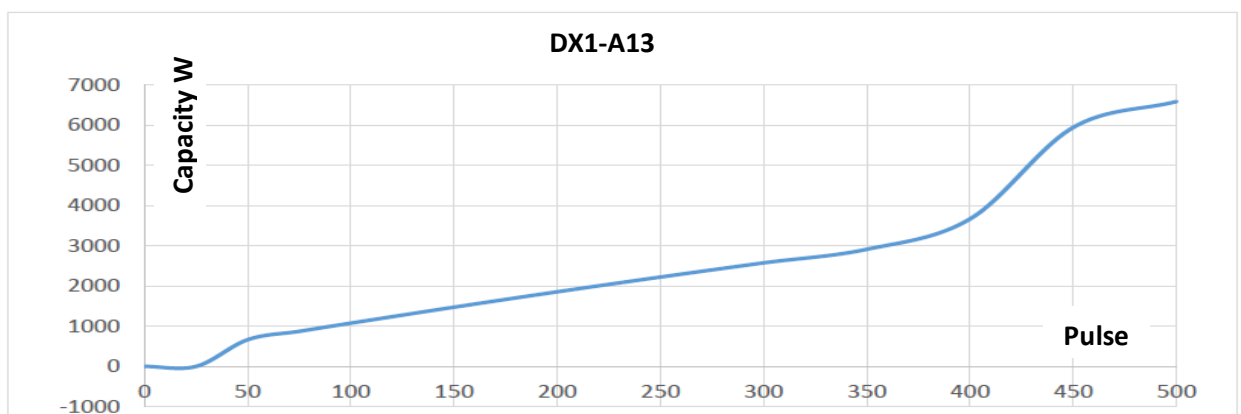


Normal Flow Direction: Tube A to Tube B

Reverse Flow Direction: Tube B to Tube A

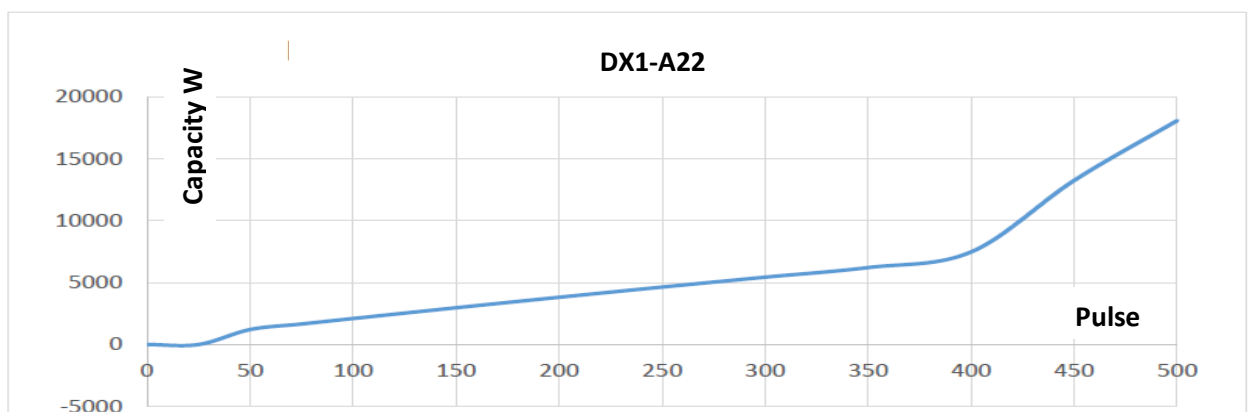
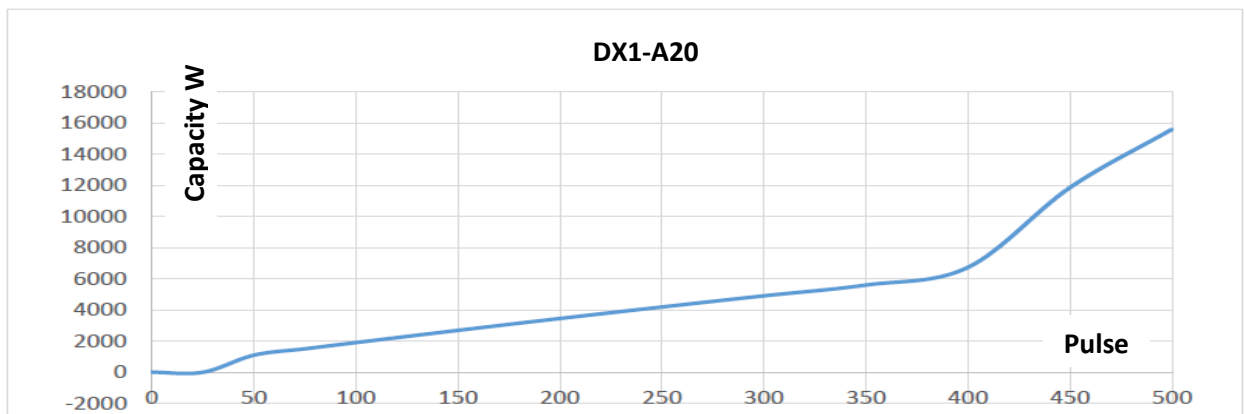
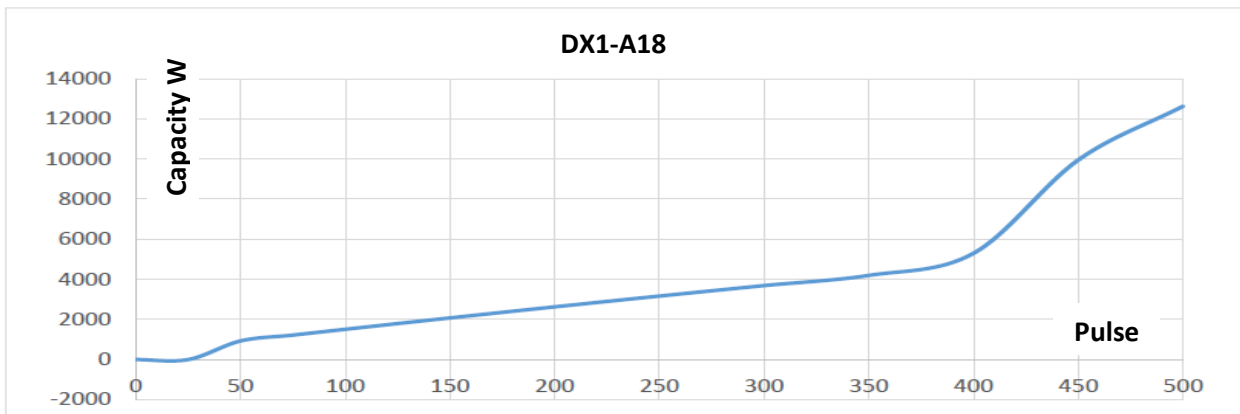
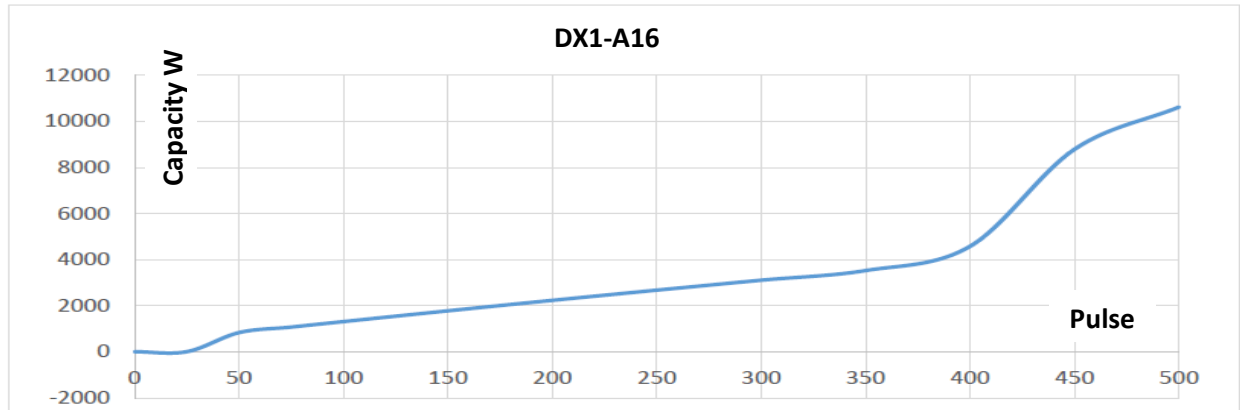
Model	Orifice(mm)	A(mm)	B(mm)	C(mm)	D(mm)
DX1-A13	1.30	80	38	38	6.35 +0/- 0.15
DX1-A16	1.65				
DX1-A18	1.80				
DX1-A20	2.00				
DX1-A22	2.20				
DX1-A24	2.40	89	50	47	8.0 +0/-0.15
DX1-A28	2.80				
DX1-A30	3.00				
DX1-A32	3.20				

Flow Curve: R410A @ ASERCOM Condition



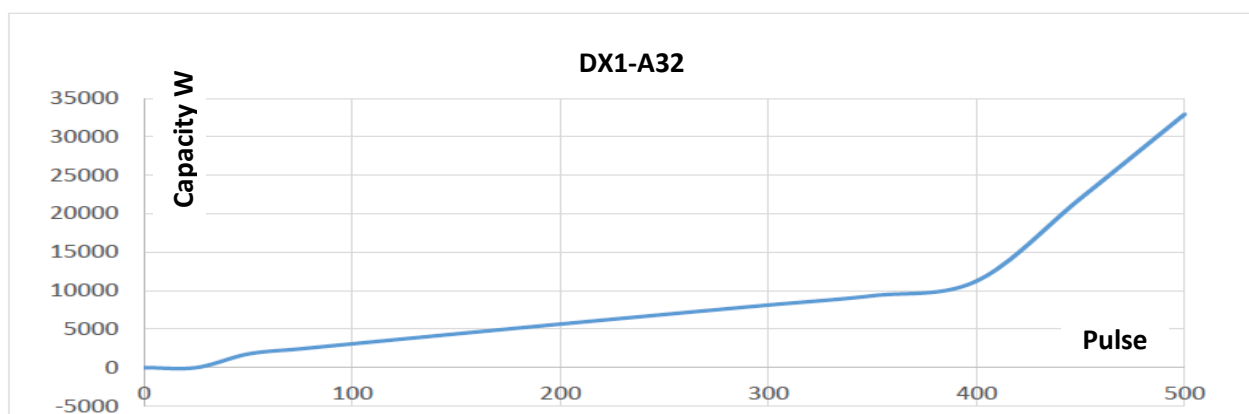
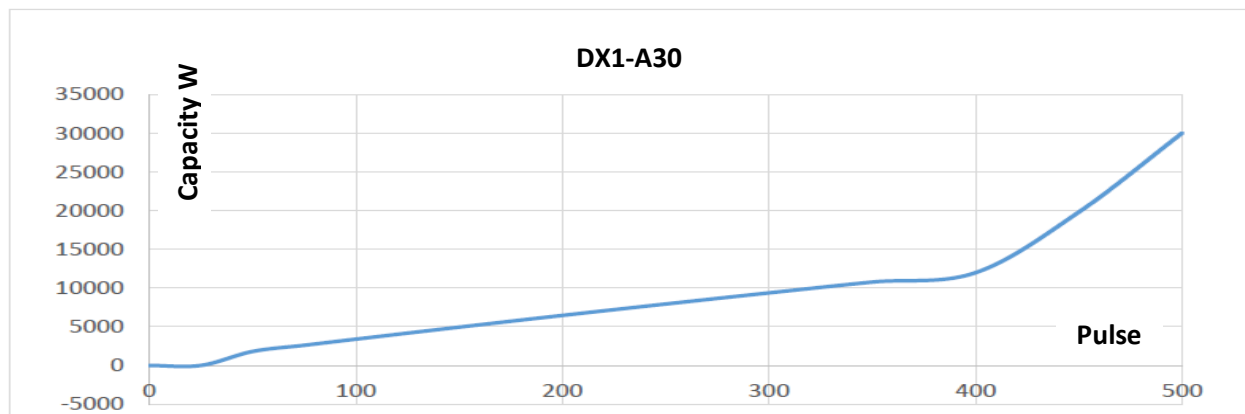
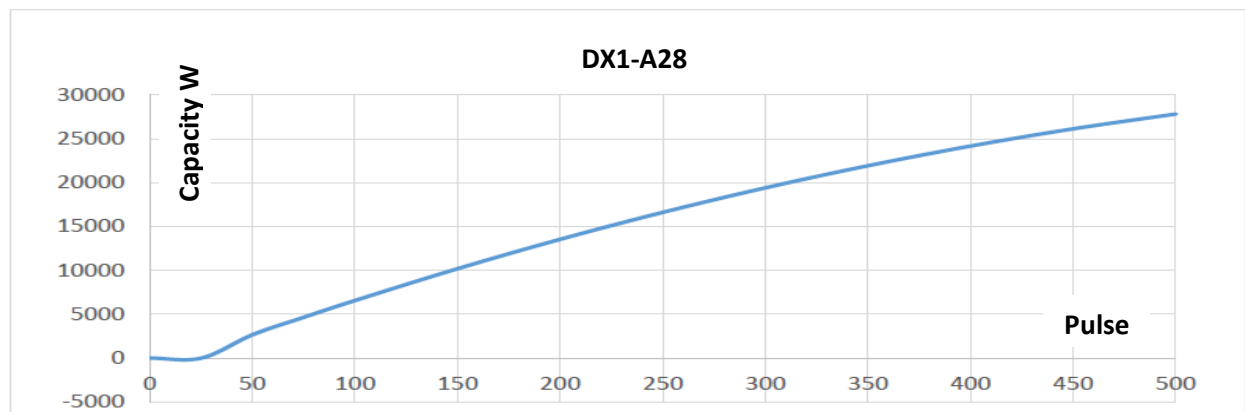
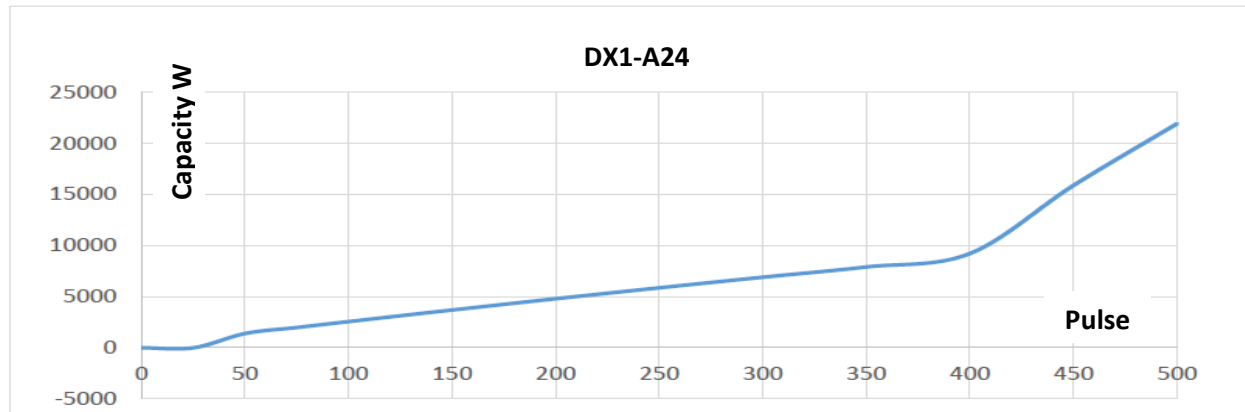


D A T A S H E E T





D A T A S H E E T





D A T A S H E E T

Extended Capacity Table

Condensing Temperature (°C)	R22			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
65	5.5	5.6	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.5	5.4	5.3	DX1-A13
	8.8	9.0	9.1	9.1	9.1	9.1	9.1	9.0	8.9	8.8	8.7	8.6	DX1-A16
	10.6	10.9	11.0	11.1	11.0	11.1	11.0	11.0	10.8	10.7	10.5	10.4	DX1-A18
	13.0	13.3	13.4	13.5	13.5	13.5	13.4	13.4	13.3	13.0	12.9	12.7	DX1-A20
	15.7	16.0	16.2	16.3	16.3	16.3	16.2	16.2	16.0	15.7	15.5	15.3	DX1-A22
	18.6	19.0	19.2	19.3	19.3	19.3	19.2	19.1	18.9	18.6	18.4	18.2	DX1-A24
	25.4	26.0	26.3	26.4	26.4	26.4	26.2	26.2	25.9	25.4	25.1	24.8	DX1-A28
	27.7	28.3	28.6	28.8	28.7	28.8	28.6	28.5	28.2	27.7	27.4	27.0	DX1-A30
	29.8	30.5	30.8	31.1	31.0	31.0	30.8	30.7	30.4	29.9	29.5	29.1	DX1-A32
60	5.4	5.5	5.7	5.7	5.7	5.8	5.7	5.7	5.7	5.6	5.5	5.5	DX1-A13
	8.7	8.9	9.1	9.2	9.2	9.2	9.2	9.2	9.1	9.0	8.9	8.8	DX1-A16
	10.5	10.8	11.0	11.1	11.2	11.2	11.1	11.1	11.1	10.9	10.8	10.6	DX1-A18
	12.9	13.2	13.4	13.6	13.6	13.7	13.6	13.6	13.5	13.4	13.2	13.0	DX1-A20
	15.6	15.9	16.2	16.4	16.5	16.5	16.4	16.4	16.3	16.1	15.9	15.7	DX1-A22
	18.4	18.8	19.2	19.4	19.5	19.6	19.4	19.4	19.3	19.1	18.8	18.6	DX1-A24
	25.2	25.7	26.2	26.5	26.6	26.7	26.5	26.5	26.4	26.1	25.7	25.4	DX1-A28
	27.4	28.0	28.6	28.9	29.0	29.1	28.9	28.9	28.8	28.4	28.1	27.7	DX1-A30
	29.6	30.2	30.8	31.1	31.3	31.4	31.2	31.1	31.0	30.6	30.2	29.8	DX1-A32
55	5.3	5.4	5.6	5.6	5.7	5.7	5.8	5.8	5.7	5.7	5.6	5.5	DX1-A13
	8.5	8.7	8.9	9.0	9.2	9.2	9.2	9.2	9.2	9.1	9.0	8.9	DX1-A16
	10.3	10.5	10.8	10.9	11.1	11.2	11.2	11.2	11.1	11.0	10.9	10.8	DX1-A18
	12.6	12.9	13.2	13.4	13.6	13.7	13.7	13.7	13.6	13.5	13.4	13.2	DX1-A20
	15.1	15.5	15.9	16.2	16.4	16.5	16.5	16.5	16.4	16.2	16.1	15.9	DX1-A22
	17.9	18.4	18.9	19.1	19.4	19.5	19.6	19.5	19.5	19.2	19.1	18.8	DX1-A24
	24.5	25.1	25.8	26.1	26.6	26.7	26.7	26.7	26.6	26.3	26.1	25.7	DX1-A28
	26.7	27.4	28.1	28.5	28.9	29.1	29.1	29.1	29.0	28.6	28.5	28.1	DX1-A30
	28.8	29.5	30.3	30.7	31.2	31.4	31.4	31.4	31.3	30.9	30.7	30.3	DX1-A32
50	5.1	5.3	5.4	5.5	5.6	5.7	5.7	5.7	5.7	5.7	5.6	5.6	DX1-A13
	8.1	8.5	8.7	8.9	9.0	9.1	9.2	9.2	9.1	9.1	9.1	8.9	DX1-A16
	9.8	10.3	10.5	10.8	10.9	11.1	11.1	11.1	11.1	11.0	11.0	10.8	DX1-A18
	12.0	12.5	12.9	13.2	13.3	13.5	13.6	13.6	13.6	13.5	13.4	13.2	DX1-A20
	14.5	15.1	15.5	15.9	16.1	16.3	16.4	16.4	16.4	16.3	16.2	15.9	DX1-A22
	17.2	17.9	18.4	18.8	19.1	19.3	19.4	19.4	19.4	19.3	19.2	18.9	DX1-A24
	23.5	24.5	25.1	25.7	26.0	26.4	26.5	26.5	26.5	26.4	26.2	25.8	DX1-A28
	25.6	26.7	27.3	28.0	28.4	28.8	28.9	28.9	28.8	28.7	28.5	28.1	DX1-A30
	27.6	28.8	29.5	30.2	30.6	31.1	31.2	31.2	31.1	31.0	30.8	30.3	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R22			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
45	4.7	5.0	5.2	5.3	5.5	5.5	5.6	5.6	5.6	5.7	5.6	5.5	DX1-A13
	7.6	8.0	8.4	8.6	8.8	8.9	9.0	9.0	9.0	9.1	9.0	8.9	DX1-A16
	9.2	9.7	10.2	10.4	10.7	10.8	10.9	10.9	10.9	11.0	10.9	10.8	DX1-A18
	11.3	11.9	12.4	12.7	13.0	13.2	13.4	13.4	13.4	13.4	13.4	13.2	DX1-A20
	13.6	14.4	15.0	15.3	15.7	15.9	16.1	16.1	16.1	16.2	16.1	15.9	DX1-A22
	16.1	17.0	17.7	18.2	18.6	18.8	19.1	19.1	19.1	19.2	19.1	18.8	DX1-A24
	22.0	23.3	24.3	24.8	25.4	25.7	26.1	26.1	26.1	26.2	26.1	25.7	DX1-A28
	24.0	25.3	26.4	27.0	27.7	28.0	28.4	28.5	28.4	28.6	28.4	28.0	DX1-A30
	25.9	27.3	28.5	29.2	29.9	30.2	30.6	30.7	30.7	30.8	30.6	30.2	DX1-A32
40	4.3	4.7	4.9	5.1	5.3	5.4	5.5	5.5	5.5	5.5	5.5	5.5	DX1-A13
	6.9	7.5	7.9	8.2	8.5	8.6	8.8	8.8	8.9	8.9	8.8	8.8	DX1-A16
	8.4	9.0	9.5	10.0	10.3	10.4	10.6	10.7	10.8	10.7	10.7	10.7	DX1-A18
	10.3	11.1	11.7	12.2	12.6	12.8	13.0	13.0	13.2	13.1	13.1	13.1	DX1-A20
	12.4	13.3	14.1	14.7	15.2	15.4	15.7	15.7	15.9	15.9	15.8	15.8	DX1-A22
	14.7	15.8	16.7	17.4	18.0	18.2	18.6	18.6	18.8	18.8	18.7	18.7	DX1-A24
	20.1	21.6	22.8	23.8	24.5	24.9	25.4	25.5	25.7	25.7	25.5	25.6	DX1-A28
	21.9	23.5	24.8	25.9	26.7	27.1	27.6	27.7	28.0	27.9	27.8	27.9	DX1-A30
	23.6	25.4	26.8	27.9	28.8	29.2	29.8	29.9	30.2	30.1	30.0	30.1	DX1-A32
35	3.8	4.2	4.6	4.8	5.0	5.2	5.2	5.3	5.4	5.4	5.4	5.4	DX1-A13
	6.1	6.8	7.3	7.7	8.0	8.3	8.4	8.5	8.7	8.7	8.6	8.6	DX1-A16
	7.4	8.2	8.8	9.3	9.7	10.0	10.2	10.4	10.5	10.5	10.4	10.5	DX1-A18
	9.0	10.0	10.8	11.4	11.9	12.3	12.5	12.7	12.8	12.8	12.8	12.8	DX1-A20
	10.9	12.1	13.1	13.8	14.4	14.8	15.0	15.3	15.5	15.5	15.4	15.5	DX1-A22
	12.9	14.4	15.5	16.3	17.0	17.6	17.8	18.1	18.3	18.3	18.3	18.3	DX1-A24
	17.7	19.6	21.1	22.3	23.3	24.0	24.3	24.7	25.1	25.0	25.0	25.0	DX1-A28
	19.2	21.4	23.0	24.3	25.3	26.1	26.5	27.0	27.3	27.3	27.2	27.3	DX1-A30
	20.7	23.0	24.8	26.2	27.3	28.2	28.6	29.1	29.4	29.4	29.3	29.4	DX1-A32
30	3.1	3.7	4.1	4.4	4.7	4.8	5.0	5.1	5.2	5.2	5.2	5.2	DX1-A13
	5.0	5.9	6.6	7.1	7.5	7.8	8.0	8.2	8.3	8.3	8.4	8.4	DX1-A16
	6.0	7.2	8.0	8.6	9.1	9.4	9.7	9.9	10.1	10.1	10.2	10.1	DX1-A18
	7.4	8.8	9.8	10.6	11.2	11.5	11.9	12.1	12.3	12.4	12.5	12.4	DX1-A20
	8.9	10.6	11.8	12.7	13.5	13.9	14.3	14.6	14.9	14.9	15.0	15.0	DX1-A22
	10.5	12.6	14.0	15.1	15.9	16.4	16.9	17.3	17.6	17.7	17.8	17.7	DX1-A24
	14.4	17.2	19.1	20.6	21.8	22.5	23.2	23.7	24.1	24.1	24.3	24.2	DX1-A28
	15.7	18.7	20.8	22.5	23.7	24.5	25.2	25.8	26.2	26.3	26.5	26.4	DX1-A30
	16.9	20.2	22.5	24.2	25.6	26.4	27.2	27.8	28.3	28.4	28.6	28.4	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R22			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
25	2.1	2.9	3.5	4.0	4.3	4.5	4.7	4.9	4.9	5.0	5.0	5.0	DX1-A13
	3.3	4.7	5.7	6.4	6.9	7.3	7.6	7.8	7.9	8.0	8.1	8.1	DX1-A16
	4.1	5.7	6.9	7.7	8.3	8.8	9.2	9.4	9.5	9.7	9.8	9.8	DX1-A18
	5.0	7.0	8.4	9.4	10.2	10.8	11.2	11.5	11.7	11.9	12.0	12.0	DX1-A20
	6.0	8.4	10.2	11.4	12.3	13.0	13.5	13.9	14.1	14.3	14.5	14.4	DX1-A22
	7.1	10.0	12.0	13.5	14.5	15.4	16.0	16.5	16.7	16.9	17.1	17.1	DX1-A24
	9.7	13.6	16.5	18.4	19.9	21.0	21.9	22.5	22.8	23.2	23.4	23.3	DX1-A28
	10.5	14.9	17.9	20.0	21.6	22.9	23.8	24.5	24.8	25.2	25.5	25.4	DX1-A30
	11.4	16.0	19.3	21.6	23.3	24.7	25.7	26.5	26.8	27.2	27.5	27.4	DX1-A32
20		1.9	2.8	3.3	3.8	4.1	4.3	4.5	4.6	4.7	4.8	4.8	DX1-A13
		3.0	4.4	5.4	6.1	6.6	7.0	7.2	7.4	7.5	7.7	7.7	DX1-A16
		3.6	5.4	6.5	7.4	8.0	8.4	8.8	8.9	9.1	9.3	9.4	DX1-A18
		4.5	6.6	7.9	9.0	9.8	10.3	10.7	10.9	11.2	11.4	11.5	DX1-A20
		5.4	7.9	9.6	10.9	11.8	12.4	13.0	13.2	13.5	13.7	13.8	DX1-A22
		6.4	9.4	11.3	12.9	13.9	14.7	15.3	15.6	16.0	16.2	16.4	DX1-A24
		8.7	12.8	15.5	17.6	19.0	20.1	21.0	21.4	21.8	22.2	22.4	DX1-A28
		9.5	14.0	16.9	19.2	20.7	21.9	22.8	23.3	23.8	24.2	24.4	DX1-A30
		10.2	15.1	18.2	20.7	22.4	23.7	24.6	25.1	25.7	26.0	26.3	DX1-A32
15		1.6	2.6	3.1	3.6	3.9	4.1	4.3	4.4	4.5	4.6	4.6	DX1-A13
		2.6	4.1	5.1	5.7	6.2	6.6	6.8	7.0	7.2	7.3	7.3	DX1-A16
		3.2	5.0	6.1	6.9	7.5	8.0	8.3	8.5	8.7	8.8	8.8	DX1-A18
		3.9	6.1	7.5	8.5	9.2	9.7	10.1	10.4	10.7	10.8	10.8	DX1-A20
		4.7	7.4	9.0	10.2	11.1	11.7	12.2	12.6	12.9	13.1	13.1	DX1-A22
		5.5	8.7	10.7	12.1	13.1	13.9	14.5	14.9	15.2	15.5	15.5	DX1-A24
		7.5	11.9	14.6	16.5	17.9	19.0	19.8	20.4	20.8	21.1	21.1	DX1-A28
		8.2	13.0	15.9	18.0	19.5	20.7	21.6	22.2	22.7	23.0	23.0	DX1-A30
		8.9	14.0	17.2	19.4	21.1	22.3	23.2	23.9	24.5	24.8	24.8	DX1-A32
10		1.3	2.3	2.9	3.4	3.7	3.9	4.0	4.2	4.3	4.3	4.3	DX1-A13
		2.1	3.7	4.7	5.4	5.9	6.2	6.5	6.7	6.8	6.8	6.8	DX1-A16
		2.5	4.5	5.6	6.5	7.1	7.5	7.9	8.1	8.3	8.3	8.3	DX1-A18
		3.1	5.5	6.9	8.0	8.7	9.2	9.6	9.9	10.1	10.1	10.1	DX1-A20
		3.7	6.6	8.3	9.6	10.5	11.1	11.6	11.9	12.2	12.2	12.2	DX1-A22
		4.4	7.9	9.9	11.4	12.4	13.2	13.7	14.1	14.4	14.4	14.4	DX1-A24
		6.0	10.7	13.5	15.6	17.0	18.0	18.8	19.3	19.7	19.7	19.7	DX1-A28
		6.5	11.7	14.7	17.0	18.5	19.6	20.4	21.1	21.5	21.5	21.5	DX1-A30
		7.0	12.6	15.8	18.3	19.9	21.1	22.0	22.7	23.2	23.2	23.2	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R134a			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
65	4.1	4.1	4.1	4.1	4.0	3.9	3.9	3.8	3.7	3.6			DX1-A13
	6.7	6.7	6.7	6.7	6.6	6.4	6.3	6.2	6.0	5.8			DX1-A16
	8.1	8.1	8.1	8.1	7.9	7.8	7.7	7.5	7.3	7.0			DX1-A18
	9.8	9.8	9.8	9.7	9.6	9.4	9.3	9.0	8.8	8.5			DX1-A20
	11.8	11.8	11.8	11.7	11.6	11.4	11.1	10.9	10.6	10.3			DX1-A22
	14.1	14.2	14.1	14.0	13.8	13.6	13.3	13.0	12.7	12.3			DX1-A24
	19.3	19.3	19.2	19.1	18.8	18.5	18.1	17.7	17.2	16.7			DX1-A28
	21.1	21.1	21.0	20.9	20.6	20.2	19.8	19.3	18.9	18.3			DX1-A30
	22.7	22.7	22.6	22.5	22.1	21.8	21.4	20.8	20.3	19.7			DX1-A32
60	4.1	4.1	4.1	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.5	DX1-A13
	6.7	6.7	6.8	6.7	6.7	6.6	6.5	6.4	6.2	6.1	6.0	5.8	DX1-A16
	8.1	8.1	8.2	8.1	8.1	8.0	7.9	7.7	7.5	7.3	7.2	7.0	DX1-A18
	9.8	9.8	9.9	9.9	9.8	9.7	9.5	9.3	9.1	8.9	8.7	8.4	DX1-A20
	11.8	11.9	11.9	11.9	11.8	11.6	11.5	11.2	11.0	10.7	10.5	10.2	DX1-A22
	14.1	14.2	14.3	14.2	14.1	13.9	13.7	13.4	13.1	12.8	12.5	12.1	DX1-A24
	19.2	19.3	19.4	19.3	19.1	18.9	18.7	18.3	17.9	17.4	17.1	16.5	DX1-A28
	21.0	21.1	21.2	21.1	20.9	20.7	20.4	20.0	19.6	19.0	18.7	18.1	DX1-A30
	22.6	22.7	22.8	22.7	22.5	22.3	22.0	21.5	21.1	20.5	20.1	19.5	DX1-A32
55	4.0	4.1	4.1	4.1	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	DX1-A13
	6.5	6.7	6.7	6.7	6.7	6.7	6.6	6.5	6.4	6.2	6.1	6.0	DX1-A16
	7.9	8.1	8.2	8.1	8.1	8.1	8.0	7.9	7.7	7.5	7.4	7.2	DX1-A18
	9.5	9.8	9.9	9.8	9.8	9.8	9.7	9.5	9.3	9.1	9.0	8.7	DX1-A20
	11.5	11.8	11.9	11.8	11.8	11.8	11.6	11.5	11.2	10.9	10.8	10.5	DX1-A22
	13.7	14.1	14.2	14.2	14.2	14.1	13.9	13.7	13.4	13.1	12.9	12.5	DX1-A24
	18.7	19.2	19.3	19.3	19.3	19.2	19.0	18.7	18.2	17.8	17.5	17.1	DX1-A28
	20.4	21.0	21.2	21.1	21.1	21.0	20.7	20.4	19.9	19.5	19.2	18.7	DX1-A30
	22.0	22.6	22.8	22.7	22.7	22.6	22.3	22.0	21.5	20.9	20.7	20.1	DX1-A32
50	3.8	3.9	4.0	4.1	4.1	4.1	4.1	4.0	3.9	3.9	3.8	3.7	DX1-A13
	6.2	6.4	6.6	6.7	6.7	6.7	6.6	6.5	6.4	6.3	6.2	6.1	DX1-A16
	7.5	7.8	8.0	8.1	8.1	8.1	8.0	7.9	7.8	7.6	7.5	7.3	DX1-A18
	9.1	9.4	9.7	9.7	9.8	9.7	9.7	9.6	9.4	9.2	9.1	8.9	DX1-A20
	11.0	11.4	11.6	11.7	11.8	11.7	11.7	11.5	11.3	11.1	10.9	10.7	DX1-A22
	13.1	13.6	13.9	14.0	14.1	14.0	14.0	13.7	13.5	13.3	13.1	12.8	DX1-A24
	17.9	18.5	18.9	19.1	19.1	19.1	19.0	18.7	18.4	18.1	17.8	17.4	DX1-A28
	19.5	20.2	20.7	20.9	20.9	20.9	20.8	20.5	20.1	19.7	19.5	19.0	DX1-A30
	21.0	21.8	22.3	22.5	22.5	22.5	22.4	22.0	21.6	21.2	21.0	20.5	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R134a			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
45	3.6	3.8	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.7	DX1-A13
	5.9	6.2	6.3	6.5	6.5	6.6	6.5	6.5	6.4	6.3	6.2	6.1	DX1-A16
	7.1	7.5	7.6	7.8	7.9	7.9	7.9	7.9	7.7	7.6	7.5	7.4	DX1-A18
	8.6	9.0	9.2	9.5	9.5	9.6	9.6	9.5	9.3	9.2	9.1	8.9	DX1-A20
	10.4	10.9	11.1	11.4	11.5	11.6	11.5	11.5	11.3	11.1	11.0	10.8	DX1-A22
	12.4	13.0	13.3	13.6	13.7	13.8	13.8	13.7	13.4	13.3	13.1	12.9	DX1-A24
	16.9	17.7	18.1	18.5	18.6	18.8	18.8	18.6	18.3	18.1	17.9	17.5	DX1-A28
	18.4	19.3	19.8	20.3	20.4	20.6	20.5	20.4	20.0	19.8	19.5	19.1	DX1-A30
	19.8	20.8	21.3	21.8	21.9	22.2	22.1	21.9	21.6	21.3	21.0	20.6	DX1-A32
40	3.3	3.5	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.7	DX1-A13
	5.3	5.7	6.0	6.2	6.3	6.3	6.4	6.4	6.3	6.2	6.2	6.1	DX1-A16
	6.4	6.9	7.2	7.5	7.6	7.7	7.7	7.7	7.6	7.5	7.5	7.3	DX1-A18
	7.8	8.3	8.7	9.0	9.2	9.3	9.4	9.3	9.2	9.1	9.0	8.9	DX1-A20
	9.4	10.0	10.5	10.9	11.1	11.2	11.3	11.2	11.1	11.0	10.9	10.7	DX1-A22
	11.2	12.0	12.6	13.0	13.3	13.3	13.5	13.4	13.3	13.1	13.0	12.8	DX1-A24
	15.2	16.3	17.1	17.7	18.1	18.2	18.3	18.2	18.1	17.9	17.7	17.4	DX1-A28
	16.7	17.9	18.7	19.3	19.8	19.9	20.1	20.0	19.8	19.6	19.4	19.0	DX1-A30
	17.9	19.2	20.1	20.8	21.3	21.4	21.6	21.5	21.3	21.1	20.9	20.5	DX1-A32
35	2.8	3.1	3.4	3.5	3.6	3.7	3.8	3.8	3.8	3.7	3.7	3.7	DX1-A13
	4.5	5.1	5.5	5.8	6.0	6.1	6.2	6.2	6.2	6.1	6.1	6.0	DX1-A16
	5.5	6.2	6.6	7.0	7.2	7.4	7.5	7.4	7.5	7.4	7.3	7.2	DX1-A18
	6.6	7.5	8.0	8.4	8.7	8.9	9.0	9.0	9.0	8.9	8.9	8.7	DX1-A20
	8.0	9.0	9.7	10.1	10.5	10.7	10.9	10.8	10.9	10.8	10.7	10.5	DX1-A22
	9.6	10.8	11.6	12.1	12.5	12.8	13.0	13.0	13.0	12.9	12.8	12.6	DX1-A24
	13.0	14.7	15.7	16.5	17.1	17.4	17.7	17.6	17.7	17.5	17.4	17.1	DX1-A28
	14.2	16.0	17.2	18.1	18.7	19.1	19.3	19.3	19.3	19.2	19.0	18.7	DX1-A30
	15.3	17.3	18.5	19.4	20.1	20.5	20.8	20.8	20.8	20.6	20.4	20.2	DX1-A32
30	2.1	2.6	3.0	3.2	3.4	3.5	3.6	3.6	3.6	3.6	3.6	3.6	DX1-A13
	3.5	4.3	4.8	5.2	5.5	5.7	5.8	5.9	5.9	5.9	5.9	5.8	DX1-A16
	4.2	5.2	5.9	6.3	6.7	6.9	7.1	7.1	7.1	7.1	7.1	7.0	DX1-A18
	5.1	6.3	7.1	7.6	8.1	8.4	8.5	8.6	8.6	8.6	8.6	8.5	DX1-A20
	6.2	7.6	8.5	9.2	9.7	10.1	10.3	10.3	10.4	10.4	10.3	10.2	DX1-A22
	7.4	9.1	10.2	11.0	11.6	12.0	12.3	12.3	12.4	12.4	12.4	12.2	DX1-A24
	10.0	12.4	13.9	14.9	15.9	16.4	16.7	16.8	16.9	16.9	16.8	16.7	DX1-A28
	11.0	13.5	15.2	16.3	17.3	17.9	18.3	18.4	18.5	18.5	18.4	18.2	DX1-A30
	11.8	14.6	16.3	17.6	18.7	19.3	19.7	19.8	19.9	19.9	19.8	19.6	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R134a			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
25	1.0	1.9	2.5	2.8	3.0	3.2	3.3	3.4	3.4	3.4	3.4	3.4	DX1-A13
	1.7	3.2	4.0	4.5	5.0	5.2	5.4	5.5	5.6	5.6	5.6	5.6	DX1-A16
	2.0	3.8	4.8	5.5	6.0	6.3	6.5	6.7	6.8	6.8	6.8	6.7	DX1-A18
	2.5	4.6	5.9	6.6	7.3	7.6	7.9	8.1	8.2	8.2	8.2	8.2	DX1-A20
	3.0	5.6	7.1	8.0	8.7	9.2	9.5	9.7	9.8	9.9	9.9	9.8	DX1-A22
	3.5	6.7	8.4	9.6	10.4	11.0	11.4	11.6	11.8	11.8	11.8	11.7	DX1-A24
	4.8	9.1	11.5	13.0	14.2	15.0	15.5	15.8	16.0	16.1	16.1	16.0	DX1-A28
	5.3	9.9	12.6	14.2	15.6	16.4	16.9	17.3	17.5	17.6	17.6	17.5	DX1-A30
	5.7	10.7	13.5	15.3	16.7	17.6	18.2	18.6	18.8	19.0	18.9	18.8	DX1-A32
20		0.5	1.7	2.2	2.6	2.8	3.0	3.1	3.2	3.2	3.2	3.2	DX1-A13
		0.9	2.8	3.7	4.2	4.6	4.9	5.1	5.2	5.2	5.3	5.3	DX1-A16
		1.1	3.4	4.4	5.1	5.5	5.9	6.1	6.3	6.3	6.4	6.4	DX1-A18
		1.3	4.1	5.4	6.2	6.7	7.1	7.4	7.6	7.7	7.7	7.7	DX1-A20
		1.6	4.9	6.5	7.4	8.1	8.6	8.9	9.1	9.2	9.3	9.3	DX1-A22
		1.9	5.8	7.7	8.9	9.6	10.3	10.6	10.9	11.0	11.1	11.1	DX1-A24
		2.5	7.9	10.5	12.1	13.1	14.0	14.5	14.8	15.0	15.1	15.1	DX1-A28
		2.8	8.7	11.5	13.2	14.4	15.3	15.9	16.2	16.4	16.6	16.5	DX1-A30
		3.0	9.4	12.4	14.2	15.4	16.5	17.1	17.4	17.7	17.8	17.8	DX1-A32
15		1.4	2.0	2.3	2.6	2.8	2.9	2.9	3.0	3.0	3.0	DX1-A13	
		2.3	3.2	3.8	4.2	4.5	4.7	4.8	4.9	4.9	4.9	DX1-A16	
		2.7	3.9	4.6	5.1	5.5	5.7	5.8	5.9	5.9	5.9	DX1-A18	
		3.3	4.7	5.6	6.2	6.6	6.9	7.0	7.1	7.2	7.2	DX1-A20	
		4.0	5.7	6.8	7.4	8.0	8.3	8.4	8.6	8.6	8.6	DX1-A22	
		4.8	6.8	8.1	8.9	9.5	9.9	10.1	10.3	10.3	10.3	DX1-A24	
		6.5	9.2	11.0	12.1	13.0	13.4	13.7	14.0	14.1	14.1	DX1-A28	
		7.1	10.1	12.0	13.2	14.2	14.7	15.0	15.3	15.4	15.4	DX1-A30	
		7.6	10.9	12.9	14.2	15.2	15.8	16.2	16.4	16.5	16.5	DX1-A32	
10		1.0	1.7	2.1	2.3	2.5	2.6	2.7	2.7	2.7	DX1-A13		
		1.6	2.7	3.4	3.8	4.1	4.2	4.4	4.4	4.4	DX1-A16		
		1.9	3.3	4.1	4.6	4.9	5.1	5.3	5.4	5.4	DX1-A18		
		2.3	4.0	4.9	5.6	5.9	6.2	6.4	6.5	6.5	DX1-A20		
		2.8	4.8	5.9	6.7	7.2	7.5	7.7	7.8	7.8	DX1-A22		
		3.4	5.7	7.1	8.0	8.5	8.9	9.2	9.4	9.4	DX1-A24		
		4.6	7.8	9.6	10.9	11.6	12.1	12.5	12.7	12.7	DX1-A28		
		5.0	8.5	10.5	11.9	12.7	13.3	13.7	13.9	13.9	DX1-A30		
		5.4	9.2	11.3	12.8	13.7	14.3	14.8	15.0	15.0	DX1-A32		

D A T A S H E E T

Condensing Temperature (°C)	R404A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
60	3.0	3.0	3.0	3.0	2.9	2.8	2.8	2.7	2.6	2.5	2.3	2.2	DX1-A13
	4.8	4.9	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.0	3.8	3.6	DX1-A16
	5.9	5.9	5.9	5.8	5.7	5.6	5.5	5.3	5.1	4.8	4.6	4.4	DX1-A18
	7.2	7.2	7.2	7.1	7.0	6.8	6.6	6.4	6.2	5.9	5.6	5.3	DX1-A20
	8.6	8.7	8.7	8.6	8.4	8.2	8.0	7.7	7.4	7.1	6.8	6.4	DX1-A22
	10.3	10.3	10.3	10.2	10.0	9.8	9.5	9.2	8.8	8.4	8.0	7.6	DX1-A24
	14.0	14.0	14.0	13.8	13.6	13.3	12.9	12.5	12.0	11.5	10.9	10.3	DX1-A28
	15.3	15.3	15.3	15.1	14.9	14.5	14.1	13.6	13.1	12.5	11.9	11.3	DX1-A30
	16.4	16.5	16.4	16.2	16.0	15.6	15.2	14.7	14.1	13.5	12.8	12.1	DX1-A32
55	3.2	3.2	3.3	3.2	3.2	3.2	3.1	3.0	2.9	2.8	2.7	2.6	DX1-A13
	5.2	5.3	5.3	5.3	5.2	5.2	5.0	4.9	4.8	4.6	4.4	4.2	DX1-A16
	6.3	6.4	6.4	6.4	6.3	6.3	6.1	6.0	5.8	5.6	5.4	5.1	DX1-A18
	7.6	7.8	7.8	7.8	7.7	7.6	7.4	7.3	7.1	6.8	6.5	6.3	DX1-A20
	9.2	9.4	9.4	9.4	9.3	9.2	9.0	8.8	8.5	8.2	7.9	7.5	DX1-A22
	10.9	11.1	11.2	11.1	11.0	10.9	10.6	10.4	10.1	9.7	9.3	8.9	DX1-A24
	14.9	15.1	15.2	15.2	15.0	14.9	14.5	14.2	13.7	13.3	12.7	12.2	DX1-A28
	16.2	16.5	16.6	16.6	16.4	16.2	15.8	15.5	15.0	14.5	13.9	13.3	DX1-A30
	17.4	17.8	17.9	17.8	17.6	17.4	17.0	16.6	16.1	15.6	14.9	14.3	DX1-A32
50	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.1	3.0	2.9	DX1-A13
	5.3	5.4	5.5	5.6	5.5	5.5	5.4	5.3	5.2	5.1	4.9	4.7	DX1-A16
	6.5	6.6	6.7	6.8	6.7	6.7	6.6	6.5	6.3	6.2	6.0	5.8	DX1-A18
	7.9	8.1	8.2	8.2	8.2	8.2	8.0	7.9	7.7	7.5	7.3	7.0	DX1-A20
	9.5	9.7	9.9	9.9	9.9	9.8	9.7	9.5	9.3	9.0	8.7	8.5	DX1-A22
	11.2	11.5	11.7	11.7	11.7	11.7	11.5	11.3	11.0	10.7	10.4	10.0	DX1-A24
	15.3	15.7	16.0	16.0	16.0	15.9	15.6	15.4	15.0	14.6	14.1	13.7	DX1-A28
	16.7	17.1	17.4	17.5	17.4	17.3	17.1	16.8	16.4	15.9	15.4	14.9	DX1-A30
	18.0	18.4	18.7	18.8	18.7	18.6	18.3	18.0	17.6	17.1	16.6	16.0	DX1-A32
45	3.2	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.2	3.1	DX1-A13
	5.2	5.5	5.6	5.7	5.7	5.8	5.7	5.6	5.5	5.4	5.3	5.1	DX1-A16
	6.4	6.7	6.8	6.9	7.0	7.0	6.9	6.9	6.7	6.6	6.4	6.2	DX1-A18
	7.8	8.1	8.3	8.4	8.5	8.5	8.5	8.4	8.2	8.1	7.8	7.6	DX1-A20
	9.4	9.8	10.0	10.2	10.2	10.3	10.2	10.1	9.8	9.7	9.4	9.1	DX1-A22
	11.1	11.6	11.9	12.0	12.1	12.2	12.1	11.9	11.7	11.5	11.1	10.8	DX1-A24
	15.1	15.8	16.2	16.4	16.5	16.6	16.4	16.3	15.9	15.7	15.2	14.7	DX1-A28
	16.5	17.3	17.7	17.9	18.1	18.1	18.0	17.8	17.4	17.1	16.6	16.1	DX1-A30
	17.8	18.6	19.0	19.3	19.4	19.5	19.3	19.1	18.7	18.4	17.8	17.3	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R404A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
40	3.1	3.3	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.3	DX1-A13
	5.0	5.4	5.6	5.7	5.8	5.9	5.9	5.8	5.8	5.7	5.6	5.4	DX1-A16
	6.1	6.5	6.8	6.9	7.1	7.1	7.1	7.1	7.0	6.9	6.8	6.6	DX1-A18
	7.5	7.9	8.3	8.5	8.6	8.7	8.7	8.7	8.5	8.4	8.2	8.0	DX1-A20
	9.0	9.6	10.0	10.2	10.4	10.4	10.5	10.4	10.3	10.1	9.9	9.6	DX1-A22
	10.7	11.3	11.8	12.1	12.3	12.4	12.4	12.4	12.2	12.0	11.8	11.4	DX1-A24
	14.5	15.4	16.1	16.4	16.8	16.9	16.9	16.8	16.6	16.3	16.0	15.6	DX1-A28
	15.9	16.9	17.6	18.0	18.4	18.5	18.5	18.4	18.1	17.8	17.5	17.0	DX1-A30
	17.1	18.1	18.9	19.3	19.7	19.8	19.8	19.8	19.5	19.1	18.8	18.3	DX1-A32
35	2.9	3.1	3.3	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	DX1-A13
	4.6	5.1	5.4	5.6	5.8	5.9	5.9	5.9	5.8	5.8	5.7	5.6	DX1-A16
	5.6	6.2	6.5	6.8	7.0	7.1	7.2	7.2	7.1	7.1	7.0	6.8	DX1-A18
	6.9	7.5	8.0	8.3	8.5	8.7	8.7	8.7	8.7	8.6	8.5	8.3	DX1-A20
	8.3	9.0	9.6	10.0	10.3	10.5	10.5	10.5	10.4	10.3	10.2	10.0	DX1-A22
	9.8	10.7	11.4	11.8	12.2	12.4	12.5	12.5	12.4	12.3	12.1	11.9	DX1-A24
	13.4	14.6	15.5	16.1	16.6	16.9	17.0	17.0	16.9	16.7	16.5	16.2	DX1-A28
	14.6	15.9	16.9	17.6	18.1	18.5	18.6	18.5	18.4	18.3	18.1	17.7	DX1-A30
	15.7	17.1	18.2	18.9	19.5	19.9	19.9	19.9	19.8	19.6	19.4	19.0	DX1-A32
30	2.5	2.8	3.1	3.3	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	DX1-A13
	4.0	4.6	5.1	5.4	5.6	5.8	5.9	5.9	5.9	5.9	5.8	5.7	DX1-A16
	4.9	5.6	6.2	6.6	6.8	7.0	7.1	7.1	7.2	7.1	7.1	7.0	DX1-A18
	6.0	6.8	7.5	8.0	8.3	8.5	8.7	8.7	8.8	8.7	8.6	8.5	DX1-A20
	7.2	8.2	9.1	9.6	10.0	10.3	10.5	10.5	10.5	10.5	10.3	10.2	DX1-A22
	8.5	9.7	10.8	11.4	11.9	12.2	12.4	12.4	12.5	12.4	12.3	12.1	DX1-A24
	11.6	13.3	14.6	15.5	16.2	16.6	16.9	16.9	17.0	16.9	16.7	16.5	DX1-A28
	12.6	14.5	16.0	17.0	17.7	18.2	18.5	18.5	18.6	18.5	18.3	18.0	DX1-A30
	13.6	15.6	17.2	18.2	19.0	19.5	19.9	19.9	20.0	19.8	19.6	19.4	DX1-A32
25	1.8	2.4	2.8	3.1	3.3	3.4	3.5	3.6	3.6	3.6	3.6	3.5	DX1-A13
	3.0	3.9	4.6	5.0	5.3	5.6	5.7	5.8	5.9	5.8	5.8	5.7	DX1-A16
	3.6	4.8	5.5	6.1	6.5	6.8	6.9	7.1	7.1	7.1	7.1	7.0	DX1-A18
	4.4	5.8	6.8	7.4	7.9	8.2	8.5	8.6	8.7	8.6	8.6	8.5	DX1-A20
	5.3	7.0	8.1	8.9	9.5	9.9	10.2	10.3	10.4	10.4	10.4	10.2	DX1-A22
	6.3	8.3	9.7	10.5	11.3	11.8	12.1	12.3	12.4	12.3	12.3	12.2	DX1-A24
	8.5	11.3	13.2	14.4	15.4	16.0	16.4	16.7	16.9	16.8	16.8	16.6	DX1-A28
	9.3	12.3	14.4	15.7	16.8	17.5	18.0	18.3	18.4	18.3	18.3	18.1	DX1-A30
	10.0	13.2	15.4	16.8	18.1	18.8	19.3	19.6	19.8	19.7	19.7	19.4	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R404A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
20		1.7	2.3	2.7	3.0	3.2	3.4	3.4	3.5	3.5	3.5	3.5	DX1-A13
		2.8	3.8	4.5	4.9	5.2	5.4	5.6	5.7	5.7	5.7	5.7	DX1-A16
		3.4	4.6	5.4	5.9	6.4	6.6	6.8	6.9	6.9	7.0	7.0	DX1-A18
		4.2	5.6	6.6	7.2	7.8	8.1	8.3	8.4	8.5	8.5	8.5	DX1-A20
		5.0	6.8	7.9	8.7	9.3	9.7	9.9	10.1	10.2	10.2	10.2	DX1-A22
		6.0	8.0	9.4	10.3	11.1	11.5	11.8	12.0	12.1	12.1	12.1	DX1-A24
		8.1	10.9	12.8	14.0	15.1	15.7	16.1	16.3	16.5	16.5	16.5	DX1-A28
		8.9	11.9	14.0	15.3	16.5	17.1	17.6	17.8	18.0	18.0	18.0	DX1-A30
		9.5	12.8	15.1	16.5	17.7	18.4	18.9	19.2	19.3	19.4	19.3	DX1-A32
15		1.6	2.2	2.6	2.9	3.1	3.3	3.3	3.4	3.4	3.4	DX1-A13	
		2.6	3.6	4.3	4.7	5.0	5.3	5.4	5.5	5.5	5.6	DX1-A16	
		3.2	4.4	5.2	5.8	6.1	6.5	6.6	6.7	6.8	6.8	DX1-A18	
		3.9	5.4	6.3	7.0	7.5	7.9	8.1	8.2	8.2	8.2	DX1-A20	
		4.7	6.4	7.6	8.5	9.0	9.5	9.7	9.8	9.9	9.9	DX1-A22	
		5.6	7.6	9.0	10.0	10.7	11.2	11.5	11.7	11.7	11.8	DX1-A24	
		7.6	10.4	12.3	13.7	14.5	15.3	15.7	15.9	16.0	16.0	DX1-A28	
		8.3	11.4	13.5	15.0	15.9	16.7	17.1	17.4	17.5	17.5	DX1-A30	
		8.9	12.2	14.4	16.1	17.0	17.9	18.4	18.6	18.8	18.8	DX1-A32	
10		1.4	2.1	2.5	2.8	3.0	3.1	3.2	3.3	3.3	DX1-A13		
		2.3	3.4	4.1	4.5	4.8	5.1	5.2	5.3	5.4	DX1-A16		
		2.8	4.1	5.0	5.5	5.9	6.2	6.3	6.4	6.5	DX1-A18		
		3.5	5.0	6.0	6.7	7.2	7.5	7.7	7.8	8.0	DX1-A20		
		4.2	6.1	7.3	8.1	8.6	9.1	9.3	9.4	9.6	DX1-A22		
		4.9	7.2	8.6	9.6	10.2	10.8	11.0	11.2	11.4	DX1-A24		
		6.7	9.8	11.7	13.1	13.9	14.7	15.0	15.2	15.5	DX1-A28		
		7.4	10.7	12.8	14.3	15.2	16.0	16.4	16.6	16.9	DX1-A30		
		7.9	11.5	13.8	15.4	16.3	17.2	17.6	17.9	18.2	DX1-A32		



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R32			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
65	9.8	10.1	10.3	10.4	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.5	DX1-A13
	15.8	16.2	16.6	16.8	17.0	17.2	17.3	17.3	17.3	17.2	17.1	17.0	DX1-A16
	19.2	19.7	20.1	20.4	20.7	20.8	20.9	21.0	21.0	20.9	20.8	20.6	DX1-A18
	23.4	24.0	24.5	24.9	25.2	25.4	25.5	25.6	25.6	25.5	25.3	25.1	DX1-A20
	28.1	28.9	29.5	30.0	30.3	30.6	30.7	30.8	30.7	30.6	30.5	30.2	DX1-A22
	33.5	34.4	35.1	35.7	36.1	36.4	36.6	36.7	36.6	36.5	36.3	36.0	DX1-A24
	45.7	46.9	48.0	48.7	49.3	49.7	49.9	50.0	50.0	49.8	49.5	49.1	DX1-A28
	49.8	51.2	52.3	53.1	53.7	54.2	54.4	54.5	54.5	54.3	54.0	53.6	DX1-A30
	53.6	55.1	56.2	57.2	57.8	58.3	58.6	58.7	58.6	58.4	58.1	57.6	DX1-A32
60	9.7	10.0	10.3	10.5	10.6	10.8	10.8	10.9	10.9	10.9	10.8	10.8	DX1-A13
	15.6	16.2	16.6	16.9	17.2	17.3	17.5	17.5	17.5	17.5	17.5	17.3	DX1-A16
	19.0	19.6	20.1	20.5	20.8	21.0	21.2	21.3	21.3	21.3	21.2	21.0	DX1-A18
	23.2	23.9	24.5	25.0	25.4	25.7	25.8	25.9	26.0	25.9	25.8	25.7	DX1-A20
	27.9	28.8	29.5	30.1	30.5	30.9	31.1	31.2	31.2	31.2	31.1	30.9	DX1-A22
	33.2	34.3	35.1	35.8	36.4	36.8	37.0	37.2	37.2	37.1	37.0	36.8	DX1-A24
	45.3	46.8	48.0	48.9	49.6	50.2	50.5	50.7	50.8	50.7	50.5	50.2	DX1-A28
	49.3	51.0	52.3	53.3	54.1	54.7	55.1	55.3	55.3	55.2	55.0	54.7	DX1-A30
	53.1	54.8	56.3	57.4	58.2	58.9	59.3	59.5	59.5	59.5	59.2	58.9	DX1-A32
55	9.4	9.8	10.1	10.4	10.6	10.7	10.8	10.9	10.9	10.9	10.9	10.8	DX1-A13
	15.2	15.8	16.3	16.7	17.0	17.3	17.4	17.5	17.6	17.6	17.5	17.5	DX1-A16
	18.5	19.2	19.8	20.3	20.7	20.9	21.1	21.3	21.3	21.3	21.3	21.2	DX1-A18
	22.5	23.4	24.1	24.7	25.2	25.5	25.8	25.9	26.0	26.0	26.0	25.9	DX1-A20
	27.1	28.2	29.0	29.7	30.3	30.7	31.0	31.2	31.3	31.3	31.2	31.1	DX1-A22
	32.3	33.6	34.6	35.4	36.1	36.6	36.9	37.2	37.3	37.3	37.2	37.0	DX1-A24
	44.1	45.8	47.2	48.4	49.2	49.9	50.4	50.7	50.9	50.9	50.8	50.5	DX1-A28
	48.0	49.9	51.5	52.7	53.7	54.4	54.9	55.3	55.4	55.4	55.3	55.1	DX1-A30
	51.7	53.7	55.4	56.7	57.8	58.6	59.1	59.5	59.7	59.7	59.5	59.3	DX1-A32
50	9.0	9.5	9.8	10.1	10.3	10.5	10.7	10.7	10.8	10.8	10.8	10.8	DX1-A13
	14.6	15.3	15.8	16.3	16.7	17.0	17.2	17.3	17.4	17.5	17.5	17.4	DX1-A16
	17.7	18.5	19.2	19.8	20.2	20.6	20.8	21.0	21.1	21.2	21.2	21.1	DX1-A18
	21.5	22.6	23.4	24.1	24.7	25.1	25.4	25.7	25.8	25.8	25.8	25.8	DX1-A20
	25.9	27.2	28.2	29.0	29.7	30.2	30.6	30.9	31.0	31.1	31.1	31.0	DX1-A22
	30.9	32.4	33.6	34.6	35.4	36.0	36.4	36.7	36.9	37.0	37.0	36.9	DX1-A24
	42.1	44.2	45.8	47.2	48.3	49.1	49.7	50.1	50.4	50.5	50.5	50.4	DX1-A28
	45.9	48.1	49.9	51.4	52.6	53.5	54.2	54.7	54.9	55.1	55.0	54.9	DX1-A30
	49.4	51.8	53.8	55.3	56.6	57.6	58.3	58.8	59.1	59.3	59.2	59.1	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R32			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
45	8.5	9.0	9.4	9.7	10.0	10.2	10.4	10.5	10.6	10.7	10.7	10.7	DX1-A13
	13.7	14.5	15.2	15.7	16.2	16.5	16.8	17.0	17.1	17.2	17.2	17.2	DX1-A16
	16.6	17.6	18.4	19.1	19.6	20.0	20.4	20.6	20.8	20.8	20.9	20.9	DX1-A18
	20.2	21.4	22.5	23.3	23.9	24.4	24.8	25.1	25.3	25.4	25.5	25.4	DX1-A20
	24.3	25.8	27.0	28.0	28.8	29.4	29.9	30.2	30.5	30.6	30.6	30.6	DX1-A22
	29.0	30.7	32.2	33.3	34.3	35.0	35.6	36.0	36.3	36.4	36.5	36.4	DX1-A24
	39.5	41.9	43.9	45.5	46.8	47.8	48.6	49.1	49.5	49.7	49.8	49.7	DX1-A28
	43.1	45.7	47.8	49.6	51.0	52.1	52.9	53.5	54.0	54.2	54.3	54.2	DX1-A30
	46.4	49.2	51.5	53.4	54.9	56.0	57.0	57.6	58.1	58.3	58.4	58.3	DX1-A32
40	7.8	8.4	8.9	9.3	9.6	9.9	10.1	10.2	10.3	10.4	10.4	10.4	DX1-A13
	12.5	13.5	14.3	15.0	15.5	15.9	16.2	16.5	16.7	16.8	16.8	16.8	DX1-A16
	15.2	16.4	17.4	18.2	18.8	19.3	19.7	20.0	20.2	20.4	20.4	20.4	DX1-A18
	18.5	20.0	21.2	22.2	22.9	23.6	24.0	24.4	24.7	24.8	24.9	24.9	DX1-A20
	22.3	24.1	25.5	26.6	27.6	28.3	28.9	29.3	29.7	29.9	30.0	30.0	DX1-A22
	26.6	28.7	30.4	31.7	32.8	33.7	34.4	34.9	35.3	35.6	35.7	35.7	DX1-A24
	36.3	39.1	41.4	43.3	44.8	46.0	47.0	47.7	48.2	48.5	48.7	48.7	DX1-A28
	39.5	42.6	45.1	47.2	48.9	50.2	51.2	52.0	52.5	52.9	53.1	53.1	DX1-A30
	42.5	45.9	48.6	50.8	52.6	54.0	55.1	55.9	56.5	56.9	57.1	57.2	DX1-A32
35	6.9	7.6	8.2	8.7	9.1	9.4	9.6	9.8	10.0	10.1	10.1	10.2	DX1-A13
	11.1	12.3	13.3	14.0	14.7	15.2	15.6	15.9	16.1	16.2	16.3	16.4	DX1-A16
	13.5	14.9	16.1	17.0	17.8	18.4	18.9	19.3	19.5	19.7	19.8	19.9	DX1-A18
	16.5	18.2	19.6	20.8	21.7	22.5	23.0	23.5	23.8	24.0	24.2	24.3	DX1-A20
	19.8	21.9	23.6	25.0	26.1	27.0	27.7	28.2	28.6	28.9	29.1	29.2	DX1-A22
	23.6	26.1	28.1	29.8	31.1	32.2	33.0	33.6	34.1	34.4	34.6	34.7	DX1-A24
	32.2	35.6	38.4	40.6	42.4	43.9	45.0	45.9	46.6	47.0	47.3	47.4	DX1-A28
	35.1	38.8	41.9	44.3	46.3	47.8	49.1	50.0	50.7	51.2	51.5	51.7	DX1-A30
	37.7	41.8	45.0	47.7	49.8	51.5	52.8	53.8	54.6	55.1	55.5	55.6	DX1-A32
30	5.8	6.7	7.5	8.0	8.5	8.9	9.2	9.4	9.6	9.7	9.8	9.8	DX1-A13
	9.4	10.9	12.0	13.0	13.7	14.3	14.8	15.1	15.4	15.6	15.8	15.8	DX1-A16
	11.3	13.2	14.6	15.7	16.6	17.3	17.9	18.4	18.7	18.9	19.1	19.2	DX1-A18
	13.8	16.1	17.8	19.2	20.3	21.2	21.8	22.4	22.8	23.1	23.3	23.4	DX1-A20
	16.7	19.3	21.4	23.1	24.4	25.4	26.3	26.9	27.4	27.8	28.0	28.2	DX1-A22
	19.8	23.0	25.5	27.5	29.0	30.3	31.3	32.1	32.7	33.1	33.4	33.6	DX1-A24
	27.1	31.4	34.8	37.5	39.6	41.3	42.7	43.8	44.6	45.2	45.6	45.8	DX1-A28
	29.5	34.2	37.9	40.8	43.2	45.1	46.6	47.7	48.6	49.2	49.7	49.9	DX1-A30
	31.7	36.8	40.8	44.0	46.5	48.5	50.1	51.3	52.3	53.0	53.4	53.7	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R32			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
25	4.3	5.6	6.5	7.2	7.8	8.2	8.6	8.9	9.1	9.2	9.3	9.4	DX1-A13
	7.0	9.0	10.5	11.7	12.6	13.3	13.8	14.3	14.6	14.9	15.1	15.2	DX1-A16
	8.5	11.0	12.8	14.2	15.2	16.1	16.8	17.3	17.7	18.1	18.3	18.4	DX1-A18
	10.4	13.4	15.6	17.3	18.6	19.6	20.5	21.1	21.6	22.0	22.3	22.5	DX1-A20
	12.5	16.1	18.7	20.8	22.4	23.6	24.6	25.4	26.0	26.5	26.8	27.0	DX1-A22
	14.8	19.2	22.3	24.7	26.6	28.1	29.3	30.3	31.0	31.5	31.9	32.2	DX1-A24
	20.3	26.2	30.5	33.7	36.3	38.4	40.0	41.3	42.3	43.1	43.6	43.9	DX1-A28
	22.1	28.5	33.2	36.8	39.6	41.9	43.6	45.0	46.1	46.9	47.5	47.9	DX1-A30
	23.8	30.7	35.7	39.6	42.6	45.0	47.0	48.5	49.6	50.5	51.1	51.5	DX1-A32
20		4.1	5.4	6.3	7.0	7.5	7.9	8.3	8.5	8.7	8.9	9.0	DX1-A13
		6.6	8.7	10.1	11.2	12.1	12.8	13.3	13.7	14.1	14.3	14.4	DX1-A16
		8.1	10.5	12.3	13.6	14.7	15.5	16.2	16.7	17.0	17.3	17.5	DX1-A18
		9.8	12.8	15.0	16.6	17.9	18.9	19.7	20.3	20.8	21.1	21.4	DX1-A20
		11.8	15.4	18.0	20.0	21.5	22.8	23.7	24.4	25.0	25.4	25.7	DX1-A22
		14.1	18.4	21.5	23.8	25.7	27.1	28.2	29.1	29.8	30.3	30.6	DX1-A24
		19.2	25.1	29.3	32.5	35.0	37.0	38.5	39.7	40.7	41.3	41.8	DX1-A28
		20.9	27.4	31.9	35.4	38.2	40.3	42.0	43.3	44.3	45.0	45.6	DX1-A30
		22.5	29.4	34.4	38.1	41.1	43.4	45.2	46.6	47.7	48.5	49.0	DX1-A32
15		3.9	5.1	6.0	6.7	7.2	7.6	7.9	8.1	8.3	8.5	DX1-A13	
		6.2	8.2	9.7	10.7	11.6	12.2	12.7	13.1	13.4	13.6	DX1-A16	
		7.5	10.0	11.7	13.0	14.1	14.8	15.5	15.9	16.3	16.5	DX1-A18	
		9.2	12.2	14.3	15.9	17.1	18.1	18.9	19.4	19.9	20.2	DX1-A20	
		11.1	14.7	17.2	19.1	20.6	21.8	22.7	23.4	23.9	24.3	DX1-A22	
		13.2	17.5	20.5	22.8	24.6	25.9	27.0	27.8	28.4	28.9	DX1-A24	
		18.0	23.9	28.0	31.1	33.5	35.4	36.9	38.0	38.8	39.4	DX1-A28	
		19.6	26.0	30.5	33.9	36.5	38.6	40.2	41.4	42.3	43.0	DX1-A30	
		21.1	28.0	32.8	36.5	39.3	41.5	43.2	44.5	45.5	46.3	DX1-A32	
10		3.6	4.8	5.7	6.3	6.8	7.2	7.5	7.7	7.9	DX1-A13		
		5.7	7.8	9.2	10.2	11.0	11.6	12.1	12.5	12.7	DX1-A16		
		6.9	9.4	11.1	12.4	13.4	14.1	14.7	15.1	15.4	DX1-A18		
		8.5	11.5	13.6	15.1	16.3	17.2	17.9	18.4	18.8	DX1-A20		
		10.2	13.8	16.3	18.2	19.6	20.7	21.5	22.2	22.7	DX1-A22		
		12.1	16.5	19.4	21.6	23.3	24.6	25.7	26.4	27.0	DX1-A24		
		16.6	22.5	26.5	29.5	31.8	33.6	35.0	36.1	36.8	DX1-A28		
		18.1	24.5	28.9	32.2	34.7	36.7	38.2	39.3	40.2	DX1-A30		
		19.4	26.3	31.1	34.6	37.3	39.4	41.1	42.3	43.2	DX1-A32		



DX1 Electronic Expansion Valve

Cooling Controls

D A T A S H E E T

Condensing Temperature (°C)	R407C			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
55	5.0	5.1	5.2	5.2	5.2	5.1	4.5	3.7	3.1				DX1-A13
	8.2	8.4	8.4	8.4	8.4	8.4	7.3	6.1	5.0				DX1-A16
	9.9	10.1	10.1	10.1	10.1	10.1	8.8	7.3	6.0				DX1-A18
	12.1	12.3	12.3	12.4	12.3	12.3	10.7	8.9	7.3				DX1-A20
	14.6	14.8	14.9	14.9	14.9	14.8	12.9	10.8	8.9				DX1-A22
	17.3	17.6	17.7	17.7	17.7	17.6	15.3	12.8	10.5				DX1-A24
	23.6	24.0	24.1	24.1	24.1	23.9	20.9	17.4	14.4				DX1-A28
	25.7	26.2	26.3	26.3	26.3	26.1	22.8	19.0	15.7				DX1-A30
	27.7	28.2	28.3	28.3	28.3	28.1	24.5	20.4	16.9				DX1-A32
50	5.0	5.2	5.2	5.3	5.3	5.3	4.6	3.9	3.2				DX1-A13
	8.2	8.4	8.6	8.6	8.6	8.6	7.5	6.3	5.2				DX1-A16
	9.9	10.1	10.3	10.3	10.4	10.3	9.0	7.6	6.3				DX1-A18
	12.0	12.3	12.5	12.6	12.7	12.6	11.0	9.2	7.6				DX1-A20
	14.6	14.9	15.2	15.2	15.3	15.2	13.3	11.1	9.2				DX1-A22
	17.3	17.7	18.0	18.0	18.1	18.1	15.7	13.2	11.0				DX1-A24
	23.5	24.1	24.5	24.6	24.7	24.6	21.4	18.0	14.9				DX1-A28
	25.7	26.3	26.7	26.8	27.0	26.8	23.4	19.6	16.3				DX1-A30
	27.6	28.3	28.8	28.8	29.0	28.9	25.2	21.1	17.5				DX1-A32
45	4.9	5.1	5.2	5.3	5.3	5.3	4.7	3.9	3.3				DX1-A13
	8.0	8.3	8.5	8.6	8.7	8.6	7.6	6.4	5.3				DX1-A16
	9.7	10.0	10.2	10.4	10.5	10.4	9.2	7.7	6.4				DX1-A18
	11.8	12.2	12.4	12.6	12.7	12.7	11.2	9.4	7.8				DX1-A20
	14.3	14.7	15.0	15.2	15.4	15.3	13.5	11.3	9.4				DX1-A22
	16.9	17.4	17.8	18.1	18.2	18.2	16.1	13.4	11.1				DX1-A24
	23.0	23.8	24.3	24.6	24.9	24.8	21.9	18.3	15.2				DX1-A28
	25.1	25.9	26.5	26.9	27.1	27.0	23.9	19.9	16.6				DX1-A30
	27.1	27.9	28.5	28.9	29.2	29.1	25.7	21.5	17.8				DX1-A32
40	4.7	4.9	5.1	5.2	5.3	5.3	4.7	3.9	3.3				DX1-A13
	7.7	8.0	8.3	8.5	8.6	8.6	7.6	6.4	5.4				DX1-A16
	9.2	9.6	10.0	10.2	10.3	10.4	9.2	7.7	6.5				DX1-A18
	11.2	11.7	12.2	12.4	12.6	12.7	11.2	9.4	7.9				DX1-A20
	13.6	14.2	14.7	15.0	15.2	15.3	13.5	11.3	9.5				DX1-A22
	16.1	16.8	17.5	17.8	18.0	18.2	16.0	13.4	11.3				DX1-A24
	21.9	22.9	23.8	24.3	24.6	24.8	21.9	18.3	15.3				DX1-A28
	23.9	24.9	25.9	26.5	26.8	27.0	23.9	20.0	16.7				DX1-A30
	25.8	26.9	27.9	28.5	28.9	29.1	25.7	21.5	18.0				DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R407C			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
35	4.4	4.7	4.9	5.0	5.1	5.2	4.6	3.9	3.3				DX1-A13
	7.1	7.6	7.9	8.1	8.4	8.5	7.5	6.4	5.3				DX1-A16
	8.5	9.2	9.5	9.8	10.1	10.2	9.0	7.7	6.4				DX1-A18
	10.4	11.1	11.6	11.9	12.3	12.4	11.0	9.3	7.8				DX1-A20
	12.6	13.5	14.0	14.4	14.9	15.0	13.3	11.3	9.5				DX1-A22
	14.9	16.0	16.6	17.1	17.6	17.8	15.8	13.4	11.2				DX1-A24
	20.3	21.8	22.7	23.3	24.0	24.3	21.5	18.2	15.3				DX1-A28
	22.2	23.8	24.7	25.4	26.2	26.5	23.5	19.9	16.7				DX1-A30
	23.9	25.6	26.6	27.4	28.2	28.5	25.2	21.4	17.9				DX1-A32
30	3.9	4.3	4.6	4.8	4.9	5.0	4.5	3.8	3.2				DX1-A13
	6.3	7.0	7.5	7.8	8.1	8.2	7.3	6.2	5.3				DX1-A16
	7.6	8.4	9.0	9.4	9.7	9.9	8.8	7.5	6.3				DX1-A18
	9.3	10.2	10.9	11.4	11.8	12.0	10.7	9.1	7.7				DX1-A20
	11.2	12.4	13.2	13.8	14.3	14.5	12.9	11.1	9.3				DX1-A22
	13.3	14.6	15.7	16.3	16.9	17.2	15.3	13.1	11.0				DX1-A24
	18.1	20.0	21.4	22.2	23.1	23.5	20.9	17.9	15.0				DX1-A28
	19.7	21.8	23.3	24.3	25.2	25.6	22.8	19.5	16.4				DX1-A30
	21.2	23.4	25.1	26.1	27.1	27.6	24.6	21.0	17.7				DX1-A32
25	3.3	3.8	4.2	4.4	4.7	4.8	4.3	3.7	3.1				DX1-A13
	5.3	6.2	6.8	7.2	7.6	7.8	7.1	6.0	5.1				DX1-A16
	6.4	7.4	8.2	8.7	9.1	9.4	8.5	7.2	6.1				DX1-A18
	7.8	9.1	10.0	10.6	11.1	11.4	10.4	8.8	7.5				DX1-A20
	9.4	11.0	12.1	12.8	13.5	13.8	12.5	10.6	9.0				DX1-A22
	11.2	13.0	14.3	15.2	16.0	16.4	14.9	12.6	10.7				DX1-A24
	15.2	17.7	19.5	20.7	21.7	22.3	20.2	17.2	14.6				DX1-A28
	16.6	19.3	21.3	22.6	23.7	24.3	22.1	18.8	15.9				DX1-A30
	17.8	20.8	22.9	24.3	25.5	26.2	23.8	20.2	17.1				DX1-A32
20		3.1	3.7	4.0	4.3	4.5	4.1	3.5	3.0				DX1-A13
		5.1	5.9	6.6	7.0	7.3	6.7	5.7	4.9				DX1-A16
		6.1	7.2	7.9	8.4	8.8	8.0	6.9	5.9				DX1-A18
		7.5	8.7	9.6	10.2	10.7	9.8	8.4	7.2				DX1-A20
		9.0	10.5	11.7	12.3	13.0	11.8	10.2	8.6				DX1-A22
		10.7	12.5	13.8	14.6	15.4	14.0	12.1	10.3				DX1-A24
		14.6	17.0	18.8	19.9	21.0	19.1	16.4	14.0				DX1-A28
		15.9	18.6	20.6	21.8	22.9	20.8	17.9	15.2				DX1-A30
		17.1	20.0	22.1	23.4	24.6	22.4	19.3	16.4				DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R407C			Extended Capacity (kW)									Valve Model	
				Evaporating Temperature (°C)										
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40		
15				3.0	3.5	3.8	4.1	3.8	3.3	2.8				DX1-A13
				4.8	5.7	6.2	6.7	6.2	5.4	4.6				DX1-A16
				5.8	6.9	7.5	8.1	7.5	6.5	5.6				DX1-A18
				7.1	8.3	9.1	9.8	9.1	7.9	6.8				DX1-A20
				8.6	10.1	11.0	11.9	11.0	9.6	8.2				DX1-A22
				10.2	12.0	13.1	14.1	13.0	11.3	9.8				DX1-A24
				13.8	16.3	17.8	19.1	17.7	15.4	13.3				DX1-A28
				15.1	17.8	19.5	20.9	19.4	16.9	14.5				DX1-A30
				16.3	19.1	21.0	22.5	20.8	18.1	15.6				DX1-A32
10				2.7	3.3	3.6	3.4	3.0	2.6				DX1-A13	
				4.5	5.3	5.9	5.6	5.0	4.3				DX1-A16	
				5.4	6.4	7.2	6.7	6.0	5.2				DX1-A18	
				6.6	7.8	8.7	8.2	7.3	6.3				DX1-A20	
				7.9	9.5	10.5	9.9	8.8	7.6				DX1-A22	
				9.4	11.2	12.5	11.8	10.4	9.1				DX1-A24	
				12.8	15.3	17.0	16.0	14.2	12.3				DX1-A28	
				14.0	16.7	18.6	17.5	15.5	13.5				DX1-A30	
				15.1	17.9	20.0	18.8	16.7	14.5				DX1-A32	

D A T A S H E E T

Condensing Temperature (°C)	R448A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
60	5.1	5.2	5.2	5.2	5.2	5.1	5.1	5.0	4.9	4.7	4.6	4.5	DX1-A13
	8.2	8.3	8.4	8.4	8.3	8.2	8.1	8.0	7.8	7.6	7.4	7.2	DX1-A16
	10.0	10.1	10.2	10.1	10.1	10.0	9.8	9.7	9.5	9.2	9.0	8.7	DX1-A18
	12.2	12.4	12.4	12.4	12.3	12.2	12.0	11.8	11.6	11.3	11.0	10.6	DX1-A20
	14.7	14.9	15.0	15.0	14.9	14.7	14.5	14.3	14.0	13.6	13.2	12.8	DX1-A22
	17.5	17.7	17.7	17.7	17.6	17.4	17.2	16.9	16.5	16.1	15.7	15.2	DX1-A24
	23.9	24.1	24.2	24.2	24.1	23.8	23.5	23.1	22.6	22.0	21.4	20.8	DX1-A28
	26.0	26.3	26.4	26.4	26.2	26.0	25.6	25.1	24.6	24.0	23.3	22.6	DX1-A30
	28.0	28.4	28.5	28.5	28.3	28.0	27.6	27.1	26.5	25.9	25.2	24.4	DX1-A32
55	5.2	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.1	5.0	4.9	4.7	DX1-A13
	8.3	8.4	8.5	8.6	8.5	8.5	8.4	8.3	8.2	8.0	7.8	7.6	DX1-A16
	10.0	10.2	10.3	10.4	10.4	10.3	10.2	10.1	9.9	9.7	9.5	9.2	DX1-A18
	12.3	12.5	12.6	12.7	12.7	12.6	12.5	12.3	12.1	11.8	11.6	11.3	DX1-A20
	14.8	15.1	15.2	15.3	15.3	15.2	15.0	14.8	14.6	14.3	14.0	13.6	DX1-A22
	17.5	17.8	18.0	18.1	18.1	18.0	17.8	17.6	17.3	16.9	16.5	16.1	DX1-A24
	23.9	24.4	24.6	24.8	24.7	24.6	24.3	24.0	23.6	23.1	22.6	22.0	DX1-A28
	26.1	26.6	26.9	27.0	26.9	26.8	26.5	26.2	25.7	25.2	24.6	24.0	DX1-A30
	28.1	28.6	29.0	29.1	29.1	28.9	28.6	28.2	27.7	27.2	26.5	25.9	DX1-A32
50	5.1	5.2	5.3	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0	4.9	DX1-A13
	8.1	8.4	8.5	8.6	8.6	8.6	8.6	8.5	8.4	8.2	8.1	7.9	DX1-A16
	9.9	10.1	10.3	10.4	10.5	10.4	10.4	10.3	10.1	10.0	9.8	9.6	DX1-A18
	12.1	12.4	12.6	12.7	12.8	12.8	12.7	12.6	12.4	12.2	12.0	11.7	DX1-A20
	14.6	14.9	15.2	15.4	15.4	15.4	15.3	15.2	15.0	14.7	14.4	14.1	DX1-A22
	17.2	17.7	18.0	18.2	18.3	18.2	18.1	18.0	17.7	17.4	17.1	16.7	DX1-A24
	23.6	24.2	24.6	24.9	25.0	24.9	24.8	24.6	24.2	23.8	23.4	22.9	DX1-A28
	25.7	26.4	26.8	27.1	27.2	27.2	27.0	26.7	26.4	26.0	25.5	24.9	DX1-A30
	27.7	28.4	28.9	29.2	29.3	29.3	29.1	28.8	28.5	28.0	27.5	26.8	DX1-A32
45	4.9	5.1	5.2	5.3	5.4	5.4	5.4	5.3	5.3	5.2	5.1	5.0	DX1-A13
	7.9	8.1	8.4	8.5	8.6	8.6	8.6	8.6	8.5	8.4	8.2	8.1	DX1-A16
	9.5	9.9	10.1	10.3	10.4	10.4	10.4	10.4	10.3	10.1	10.0	9.8	DX1-A18
	11.6	12.1	12.4	12.6	12.7	12.8	12.8	12.7	12.6	12.4	12.2	12.0	DX1-A20
	14.0	14.6	14.9	15.2	15.3	15.4	15.4	15.3	15.1	14.9	14.7	14.4	DX1-A22
	16.6	17.3	17.7	18.0	18.2	18.2	18.2	18.1	17.9	17.7	17.4	17.1	DX1-A24
	22.7	23.6	24.2	24.6	24.8	24.9	24.9	24.8	24.5	24.2	23.8	23.4	DX1-A28
	24.8	25.7	26.4	26.8	27.1	27.2	27.1	27.0	26.7	26.4	25.9	25.4	DX1-A30
	26.7	27.7	28.4	28.9	29.2	29.3	29.2	29.1	28.8	28.4	28.0	27.4	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R448A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
40	4.6	4.9	5.0	5.2	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.1	DX1-A13
	7.4	7.8	8.1	8.3	8.4	8.5	8.5	8.5	8.5	8.4	8.3	8.1	DX1-A16
	9.0	9.5	9.8	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.0	9.9	DX1-A18
	11.0	11.6	12.0	12.3	12.5	12.6	12.6	12.6	12.6	12.4	12.3	12.1	DX1-A20
	13.3	13.9	14.5	14.8	15.1	15.2	15.3	15.2	15.1	15.0	14.8	14.6	DX1-A22
	15.7	16.5	17.1	17.6	17.8	18.0	18.1	18.0	17.9	17.8	17.5	17.3	DX1-A24
	21.5	22.6	23.4	24.0	24.4	24.6	24.7	24.6	24.5	24.3	24.0	23.6	DX1-A28
	23.4	24.6	25.5	26.1	26.6	26.8	26.9	26.9	26.7	26.4	26.1	25.7	DX1-A30
	25.2	26.5	27.5	28.2	28.6	28.9	29.0	29.0	28.8	28.5	28.1	27.7	DX1-A32
35	4.2	4.6	4.8	5.0	5.1	5.2	5.2	5.2	5.2	5.2	5.1	5.1	DX1-A13
	6.8	7.3	7.7	8.0	8.2	8.3	8.4	8.4	8.4	8.3	8.2	8.1	DX1-A16
	8.2	8.9	9.3	9.6	9.9	10.0	10.1	10.2	10.1	10.1	10.0	9.9	DX1-A18
	10.1	10.8	11.4	11.8	12.1	12.3	12.4	12.4	12.4	12.3	12.2	12.1	DX1-A20
	12.2	13.1	13.7	14.2	14.6	14.8	15.0	15.0	15.0	14.9	14.7	14.5	DX1-A22
	14.4	15.5	16.3	16.9	17.3	17.6	17.7	17.8	17.7	17.6	17.4	17.2	DX1-A24
	19.7	21.2	22.2	23.0	23.6	24.0	24.2	24.3	24.2	24.1	23.8	23.5	DX1-A28
	21.5	23.0	24.2	25.1	25.7	26.1	26.4	26.4	26.4	26.2	26.0	25.6	DX1-A30
	23.1	24.8	26.1	27.1	27.7	28.2	28.4	28.5	28.5	28.3	28.0	27.6	DX1-A32
30	3.7	4.2	4.5	4.7	4.9	5.0	5.0	5.1	5.1	5.1	5.1	5.0	DX1-A13
	6.0	6.7	7.2	7.5	7.8	8.0	8.1	8.2	8.2	8.2	8.1	8.0	DX1-A16
	7.3	8.1	8.7	9.1	9.4	9.7	9.8	9.9	9.9	9.9	9.8	9.7	DX1-A18
	8.9	9.9	10.6	11.1	11.5	11.8	12.0	12.1	12.1	12.1	12.0	11.9	DX1-A20
	10.7	11.9	12.8	13.4	13.9	14.3	14.5	14.6	14.6	14.6	14.5	14.4	DX1-A22
	12.7	14.1	15.1	15.9	16.5	16.9	17.1	17.3	17.3	17.3	17.2	17.0	DX1-A24
	17.4	19.3	20.7	21.8	22.5	23.1	23.4	23.6	23.7	23.6	23.5	23.3	DX1-A28
	18.9	21.0	22.6	23.7	24.5	25.1	25.5	25.7	25.8	25.7	25.6	25.3	DX1-A30
	20.4	22.6	24.3	25.6	26.5	27.1	27.5	27.8	27.8	27.8	27.6	27.3	DX1-A32
25	3.1	3.6	4.0	4.3	4.6	4.7	4.8	4.9	4.9	4.9	4.9	4.9	DX1-A13
	4.9	5.8	6.5	6.9	7.3	7.6	7.7	7.9	7.9	7.9	7.9	7.9	DX1-A16
	6.0	7.1	7.8	8.4	8.8	9.2	9.4	9.5	9.6	9.6	9.6	9.5	DX1-A18
	7.3	8.6	9.6	10.3	10.8	11.2	11.5	11.6	11.7	11.8	11.7	11.7	DX1-A20
	8.8	10.4	11.6	12.4	13.1	13.5	13.8	14.0	14.2	14.2	14.2	14.1	DX1-A22
	10.4	12.3	13.7	14.7	15.5	16.0	16.4	16.6	16.8	16.8	16.8	16.6	DX1-A24
	14.3	16.9	18.7	20.1	21.1	21.9	22.4	22.7	22.9	23.0	22.9	22.8	DX1-A28
	15.5	18.4	20.4	21.9	23.0	23.8	24.4	24.8	25.0	25.0	25.0	24.8	DX1-A30
	16.8	19.8	22.0	23.6	24.8	25.7	26.3	26.7	26.9	27.0	26.9	26.7	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R448A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
20		2.9	3.5	3.9	4.2	4.4	4.5	4.7	4.7	4.8	4.8	4.7	DX1-A13
		4.7	5.6	6.2	6.7	7.0	7.3	7.5	7.6	7.6	7.6	7.6	DX1-A16
		5.7	6.8	7.6	8.1	8.5	8.8	9.0	9.2	9.2	9.3	9.2	DX1-A18
		7.0	8.3	9.2	9.9	10.4	10.8	11.1	11.2	11.3	11.3	11.3	DX1-A20
		8.4	10.0	11.1	12.0	12.6	13.0	13.3	13.5	13.6	13.7	13.6	DX1-A22
		10.0	11.9	13.2	14.2	14.9	15.4	15.8	16.0	16.1	16.2	16.1	DX1-A24
		13.7	16.2	18.0	19.4	20.4	21.1	21.6	21.9	22.1	22.1	22.0	DX1-A28
		14.9	17.7	19.7	21.1	22.2	23.0	23.5	23.9	24.0	24.1	24.0	DX1-A30
		16.0	19.0	21.2	22.8	23.9	24.8	25.4	25.7	25.9	26.0	25.9	DX1-A32
15		2.8	3.3	3.7	4.0	4.2	4.4	4.5	4.5	4.5	4.6	DX1-A13	
		4.5	5.3	6.0	6.4	6.7	7.0	7.1	7.2	7.3	7.3	DX1-A16	
		5.4	6.5	7.2	7.8	8.2	8.5	8.7	8.8	8.8	8.9	DX1-A18	
		6.6	7.9	8.8	9.5	10.0	10.3	10.6	10.7	10.8	10.8	DX1-A20	
		8.0	9.5	10.7	11.5	12.1	12.5	12.8	12.9	13.0	13.1	DX1-A22	
		9.4	11.3	12.6	13.6	14.3	14.8	15.1	15.3	15.4	15.5	DX1-A24	
		12.9	15.4	17.2	18.6	19.5	20.2	20.7	21.0	21.1	21.1	DX1-A28	
		14.1	16.8	18.8	20.2	21.3	22.0	22.5	22.8	23.0	23.0	DX1-A30	
		15.2	18.1	20.3	21.8	22.9	23.7	24.3	24.6	24.8	24.8	DX1-A32	
10		2.6	3.1	3.5	3.8	4.0	4.1	4.2	4.3	4.3	DX1-A13		
		4.2	5.0	5.6	6.1	6.4	6.6	6.8	6.9	6.9	DX1-A16		
		5.0	6.1	6.8	7.4	7.8	8.0	8.2	8.3	8.4	DX1-A18		
		6.2	7.5	8.4	9.0	9.5	9.8	10.1	10.2	10.3	DX1-A20		
		7.4	9.0	10.1	10.9	11.4	11.9	12.1	12.3	12.4	DX1-A22		
		8.8	10.7	11.9	12.9	13.6	14.0	14.4	14.6	14.7	DX1-A24		
		12.0	14.6	16.3	17.6	18.5	19.2	19.6	19.9	20.0	DX1-A28		
		13.1	15.9	17.8	19.2	20.2	20.9	21.4	21.7	21.8	DX1-A30		
		14.1	17.1	19.2	20.7	21.8	22.5	23.1	23.4	23.5	DX1-A32		

D A T A S H E E T

Condensing Temperature (°C)	R449A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
60	5.0	5.1	5.1	5.1	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4	DX1-A13
	8.1	8.2	8.2	8.2	8.1	8.0	7.9	7.8	7.6	7.4	7.2	7.0	DX1-A16
	9.8	9.9	9.9	9.9	9.8	9.7	9.6	9.4	9.2	9.0	8.7	8.5	DX1-A18
	12.0	12.1	12.1	12.1	12.0	11.9	11.7	11.5	11.3	11.0	10.7	10.4	DX1-A20
	14.4	14.6	14.6	14.6	14.5	14.4	14.2	13.9	13.6	13.3	12.9	12.5	DX1-A22
	17.1	17.3	17.3	17.3	17.2	17.0	16.8	16.5	16.1	15.7	15.3	14.8	DX1-A24
	23.3	23.6	23.7	23.7	23.5	23.3	22.9	22.5	22.0	21.5	20.9	20.2	DX1-A28
	25.4	25.7	25.8	25.8	25.6	25.3	25.0	24.5	24.0	23.4	22.7	22.0	DX1-A30
	27.4	27.7	27.8	27.8	27.6	27.3	26.9	26.4	25.9	25.2	24.5	23.7	DX1-A32
55	5.0	5.1	5.2	5.2	5.2	5.2	5.1	5.1	5.0	4.9	4.7	4.6	DX1-A13
	8.1	8.2	8.3	8.4	8.4	8.3	8.2	8.1	8.0	7.8	7.6	7.4	DX1-A16
	9.8	10.0	10.1	10.1	10.1	10.1	10.0	9.8	9.6	9.4	9.2	9.0	DX1-A18
	12.0	12.2	12.3	12.4	12.4	12.3	12.2	12.0	11.8	11.6	11.3	11.0	DX1-A20
	14.5	14.7	14.9	15.0	14.9	14.8	14.7	14.5	14.2	13.9	13.6	13.3	DX1-A22
	17.1	17.5	17.6	17.7	17.7	17.6	17.4	17.2	16.9	16.5	16.1	15.7	DX1-A24
	23.4	23.9	24.1	24.2	24.2	24.0	23.8	23.4	23.0	22.6	22.0	21.4	DX1-A28
	25.5	26.0	26.3	26.4	26.3	26.2	25.9	25.5	25.1	24.6	24.0	23.4	DX1-A30
	27.5	28.0	28.3	28.4	28.4	28.2	27.9	27.5	27.1	26.5	25.9	25.2	DX1-A32
50	5.0	5.1	5.2	5.2	5.3	5.3	5.2	5.2	5.1	5.0	4.9	4.8	DX1-A13
	8.0	8.2	8.3	8.4	8.4	8.4	8.4	8.3	8.2	8.0	7.9	7.7	DX1-A16
	9.7	9.9	10.1	10.2	10.2	10.2	10.1	10.0	9.9	9.7	9.5	9.3	DX1-A18
	11.8	12.1	12.3	12.5	12.5	12.5	12.4	12.3	12.1	11.9	11.7	11.4	DX1-A20
	14.2	14.6	14.9	15.0	15.1	15.1	15.0	14.8	14.6	14.4	14.1	13.8	DX1-A22
	16.9	17.3	17.6	17.8	17.9	17.8	17.7	17.6	17.3	17.0	16.7	16.3	DX1-A24
	23.1	23.7	24.1	24.3	24.4	24.4	24.2	24.0	23.7	23.3	22.8	22.3	DX1-A28
	25.1	25.8	26.2	26.5	26.6	26.6	26.4	26.1	25.8	25.3	24.8	24.3	DX1-A30
	27.1	27.8	28.3	28.6	28.7	28.6	28.5	28.2	27.8	27.3	26.8	26.2	DX1-A32
45	4.8	5.0	5.1	5.2	5.2	5.3	5.2	5.2	5.2	5.1	5.0	4.9	DX1-A13
	7.7	8.0	8.2	8.3	8.4	8.4	8.4	8.4	8.3	8.2	8.0	7.9	DX1-A16
	9.3	9.7	9.9	10.1	10.2	10.2	10.2	10.1	10.0	9.9	9.7	9.5	DX1-A18
	11.4	11.8	12.1	12.3	12.5	12.5	12.5	12.4	12.3	12.1	11.9	11.7	DX1-A20
	13.7	14.3	14.6	14.9	15.0	15.1	15.0	15.0	14.8	14.6	14.4	14.1	DX1-A22
	16.3	16.9	17.3	17.6	17.8	17.8	17.8	17.7	17.5	17.3	17.0	16.7	DX1-A24
	22.2	23.1	23.7	24.1	24.3	24.4	24.4	24.2	24.0	23.6	23.3	22.8	DX1-A28
	24.2	25.1	25.8	26.2	26.5	26.6	26.5	26.4	26.1	25.8	25.3	24.8	DX1-A30
	26.1	27.1	27.8	28.3	28.6	28.7	28.6	28.4	28.2	27.8	27.3	26.8	DX1-A32

**DX1 Electronic Expansion Valve****Cooling Controls****D A T A S H E E T**

Condensing Temperature (°C)	R449A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
40	4.5	4.8	4.9	5.1	5.1	5.2	5.2	5.2	5.2	5.1	5.0	5.0	DX1-A13
	7.3	7.6	7.9	8.1	8.2	8.3	8.3	8.3	8.3	8.2	8.1	8.0	DX1-A16
	8.8	9.2	9.6	9.8	10.0	10.1	10.1	10.1	10.0	9.9	9.8	9.6	DX1-A18
	10.7	11.3	11.7	12.0	12.2	12.3	12.4	12.4	12.3	12.2	12.0	11.8	DX1-A20
	13.0	13.6	14.2	14.5	14.7	14.9	14.9	14.9	14.8	14.7	14.5	14.2	DX1-A22
	15.4	16.2	16.8	17.2	17.5	17.6	17.7	17.6	17.5	17.4	17.1	16.9	DX1-A24
	21.0	22.1	22.9	23.5	23.9	24.1	24.2	24.1	24.0	23.7	23.4	23.0	DX1-A28
	22.9	24.1	25.0	25.6	26.0	26.2	26.3	26.3	26.1	25.9	25.5	25.1	DX1-A30
	24.7	25.9	26.9	27.6	28.0	28.3	28.4	28.3	28.2	27.9	27.5	27.1	DX1-A32
35	4.1	4.5	4.7	4.9	5.0	5.1	5.1	5.1	5.1	5.1	5.0	5.0	DX1-A13
	6.7	7.1	7.5	7.8	8.0	8.1	8.2	8.2	8.2	8.1	8.1	8.0	DX1-A16
	8.1	8.7	9.1	9.4	9.7	9.8	9.9	9.9	9.9	9.9	9.8	9.6	DX1-A18
	9.9	10.6	11.1	11.6	11.8	12.0	12.1	12.2	12.1	12.1	11.9	11.8	DX1-A20
	11.9	12.8	13.4	13.9	14.3	14.5	14.6	14.7	14.6	14.6	14.4	14.2	DX1-A22
	14.1	15.1	15.9	16.5	16.9	17.2	17.3	17.4	17.3	17.2	17.1	16.8	DX1-A24
	19.2	20.7	21.8	22.6	23.1	23.5	23.7	23.7	23.7	23.6	23.3	23.0	DX1-A28
	21.0	22.5	23.7	24.6	25.2	25.6	25.8	25.9	25.8	25.7	25.4	25.1	DX1-A30
	22.6	24.3	25.6	26.5	27.2	27.6	27.8	27.9	27.8	27.7	27.4	27.0	DX1-A32
30	3.7	4.1	4.4	4.6	4.8	4.9	4.9	5.0	5.0	5.0	5.0	4.9	DX1-A13
	5.9	6.5	7.0	7.4	7.6	7.8	7.9	8.0	8.0	8.0	7.9	7.9	DX1-A16
	7.1	7.9	8.5	8.9	9.2	9.5	9.6	9.7	9.7	9.7	9.6	9.5	DX1-A18
	8.7	9.6	10.4	10.9	11.3	11.6	11.7	11.8	11.9	11.8	11.8	11.7	DX1-A20
	10.5	11.6	12.5	13.2	13.6	14.0	14.2	14.3	14.3	14.3	14.2	14.1	DX1-A22
	12.4	13.8	14.8	15.6	16.1	16.5	16.8	16.9	17.0	16.9	16.8	16.6	DX1-A24
	16.9	18.8	20.2	21.3	22.1	22.6	22.9	23.1	23.2	23.1	23.0	22.7	DX1-A28
	18.5	20.5	22.1	23.2	24.0	24.6	25.0	25.2	25.3	25.2	25.0	24.8	DX1-A30
	19.9	22.1	23.8	25.0	25.9	26.5	26.9	27.2	27.2	27.2	27.0	26.7	DX1-A32
25	3.0	3.5	3.9	4.2	4.5	4.6	4.7	4.8	4.8	4.8	4.8	4.8	DX1-A13
	4.8	5.7	6.3	6.8	7.1	7.4	7.6	7.7	7.8	7.8	7.7	7.7	DX1-A16
	5.8	6.9	7.7	8.2	8.7	9.0	9.2	9.3	9.4	9.4	9.4	9.3	DX1-A18
	7.1	8.4	9.4	10.1	10.6	11.0	11.2	11.4	11.5	11.5	11.5	11.4	DX1-A20
	8.6	10.2	11.3	12.1	12.8	13.2	13.5	13.8	13.9	13.9	13.9	13.8	DX1-A22
	10.1	12.0	13.4	14.4	15.1	15.7	16.0	16.3	16.4	16.4	16.4	16.3	DX1-A24
	13.9	16.4	18.3	19.7	20.7	21.4	21.9	22.3	22.4	22.5	22.4	22.3	DX1-A28
	15.1	17.9	19.9	21.4	22.5	23.3	23.9	24.2	24.4	24.5	24.4	24.3	DX1-A30
	16.3	19.3	21.5	23.1	24.3	25.2	25.8	26.1	26.4	26.4	26.3	26.2	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R449A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
20		2.9	3.4	3.8	4.1	4.3	4.4	4.6	4.6	4.7	4.7	4.6	DX1-A13
		4.6	5.5	6.1	6.5	6.9	7.1	7.3	7.4	7.5	7.5	7.5	DX1-A16
		5.5	6.6	7.4	7.9	8.3	8.6	8.8	9.0	9.0	9.1	9.0	DX1-A18
		6.8	8.1	9.0	9.7	10.2	10.6	10.8	11.0	11.1	11.1	11.1	DX1-A20
		8.2	9.8	10.9	11.7	12.3	12.8	13.1	13.3	13.4	13.4	13.3	DX1-A22
		9.7	11.6	12.9	13.9	14.6	15.1	15.5	15.7	15.8	15.8	15.8	DX1-A24
		13.2	15.8	17.6	19.0	19.9	20.6	21.1	21.4	21.6	21.6	21.6	DX1-A28
		14.4	17.2	19.2	20.6	21.7	22.5	23.0	23.4	23.5	23.6	23.5	DX1-A30
		15.5	18.6	20.7	22.3	23.4	24.3	24.8	25.2	25.4	25.4	25.4	DX1-A32
15		2.7	3.2	3.6	3.9	4.1	4.3	4.4	4.4	4.5	4.5	4.5	DX1-A13
		4.3	5.2	5.8	6.3	6.6	6.8	7.0	7.1	7.1	7.1	7.2	DX1-A16
		5.2	6.3	7.0	7.6	8.0	8.3	8.5	8.6	8.7	8.7	8.7	DX1-A18
		6.4	7.7	8.6	9.3	9.8	10.1	10.4	10.5	10.6	10.6	10.6	DX1-A20
		7.7	9.3	10.4	11.2	11.8	12.2	12.5	12.7	12.8	12.8	12.8	DX1-A22
		9.1	11.0	12.3	13.3	14.0	14.5	14.8	15.0	15.1	15.1	15.1	DX1-A24
		12.5	15.0	16.8	18.1	19.1	19.8	20.2	20.5	20.7	20.7	20.7	DX1-A28
		13.6	16.4	18.3	19.8	20.8	21.5	22.0	22.4	22.5	22.5	22.5	DX1-A30
		14.7	17.7	19.8	21.3	22.4	23.2	23.8	24.1	24.3	24.3	24.3	DX1-A32
10		2.5	3.1	3.4	3.7	3.9	4.0	4.1	4.2	4.2	4.2	4.2	DX1-A13
		4.0	4.9	5.5	5.9	6.3	6.5	6.6	6.7	6.8	6.8	6.8	DX1-A16
		4.9	5.9	6.7	7.2	7.6	7.9	8.0	8.2	8.2	8.2	8.2	DX1-A18
		6.0	7.3	8.2	8.8	9.3	9.6	9.8	10.0	10.0	10.0	10.0	DX1-A20
		7.2	8.7	9.8	10.6	11.2	11.6	11.9	12.0	12.1	12.1	12.1	DX1-A22
		8.5	10.4	11.7	12.6	13.3	13.7	14.1	14.3	14.4	14.4	14.4	DX1-A24
		11.6	14.2	15.9	17.2	18.1	18.8	19.2	19.5	19.6	19.6	19.6	DX1-A28
		12.7	15.4	17.3	18.7	19.7	20.4	20.9	21.2	21.4	21.4	21.4	DX1-A30
		13.7	16.6	18.7	20.2	21.3	22.0	22.6	22.9	23.0	23.0	23.0	DX1-A32



DX1 Electronic Expansion Valve

Cooling Controls

DATA SHEET

Condensing Temperature (°C)	R410A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
65	5.0	5.1	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.0	4.9	4.8	DX1-A13
	8.1	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.2	8.0	7.9	7.7	DX1-A16
	9.8	10.0	10.1	10.2	10.2	10.2	10.1	10.0	9.9	9.7	9.5	9.3	DX1-A18
	12.0	12.2	12.4	12.5	12.5	12.5	12.4	12.2	12.1	11.9	11.6	11.4	DX1-A20
	14.5	14.7	14.9	15.0	15.0	15.0	14.9	14.7	14.6	14.3	14.0	13.7	DX1-A22
	17.2	17.5	17.8	17.8	17.9	17.8	17.7	17.5	17.3	17.1	16.7	16.3	DX1-A24
	23.5	23.9	24.2	24.3	24.4	24.3	24.1	23.9	23.6	23.3	22.7	22.2	DX1-A28
	25.6	26.0	26.4	26.5	26.5	26.5	26.3	26.1	25.8	25.3	24.8	24.2	DX1-A30
	27.5	28.0	28.4	28.5	28.6	28.5	28.3	28.0	27.7	27.3	26.7	26.1	DX1-A32
60	5.4	5.6	5.7	5.8	5.8	5.8	5.8	5.8	5.7	5.6	5.5	5.4	DX1-A13
	8.8	9.0	9.2	9.3	9.3	9.4	9.3	9.3	9.2	9.1	8.9	8.8	DX1-A16
	10.6	10.9	11.1	11.3	11.3	11.3	11.3	11.2	11.1	11.0	10.8	10.6	DX1-A18
	13.0	13.3	13.5	13.8	13.8	13.9	13.8	13.7	13.6	13.4	13.2	13.0	DX1-A20
	15.6	16.0	16.3	16.6	16.6	16.7	16.6	16.5	16.4	16.1	15.9	15.6	DX1-A22
	18.6	19.1	19.4	19.7	19.8	19.9	19.8	19.7	19.5	19.2	18.9	18.6	DX1-A24
	25.4	26.1	26.5	26.9	26.9	27.1	27.0	26.8	26.6	26.2	25.8	25.4	DX1-A28
	27.6	28.4	28.8	29.3	29.4	29.5	29.4	29.2	29.0	28.6	28.1	27.7	DX1-A30
55	29.7	30.6	31.0	31.6	31.6	31.8	31.6	31.4	31.2	30.8	30.3	29.8	DX1-A32
	5.6	5.8	5.9	6.1	6.1	6.2	6.2	6.2	6.1	6.1	6.0	5.9	DX1-A13
	9.1	9.4	9.6	9.8	9.9	9.9	10.0	10.0	9.9	9.8	9.7	9.5	DX1-A16
	11.0	11.4	11.6	11.8	11.9	12.0	12.0	12.0	11.9	11.8	11.7	11.5	DX1-A18
	13.5	13.9	14.2	14.5	14.6	14.7	14.7	14.7	14.6	14.5	14.3	14.1	DX1-A20
	16.2	16.7	17.1	17.4	17.6	17.7	17.7	17.7	17.6	17.4	17.2	17.0	DX1-A22
	19.3	19.9	20.3	20.7	20.9	21.0	21.1	21.1	20.9	20.7	20.5	20.2	DX1-A24
	26.3	27.2	27.7	28.3	28.5	28.7	28.8	28.8	28.5	28.2	27.9	27.6	DX1-A28
	28.7	29.6	30.2	30.8	31.1	31.3	31.4	31.4	31.1	30.8	30.4	30.1	DX1-A30
	30.9	31.9	32.5	33.2	33.5	33.7	33.7	33.8	33.5	33.1	32.7	32.3	DX1-A32
50	5.6	5.9	6.1	6.2	6.3	6.4	6.4	6.4	6.4	6.4	6.3	6.2	DX1-A13
	9.1	9.5	9.8	10.0	10.2	10.3	10.3	10.3	10.3	10.2	10.1	10.1	DX1-A16
	11.0	11.5	11.9	12.1	12.3	12.4	12.5	12.5	12.4	12.4	12.2	12.2	DX1-A18
	13.4	14.1	14.5	14.8	15.1	15.2	15.2	15.2	15.2	15.2	15.0	14.9	DX1-A20
	16.1	16.9	17.5	17.8	18.1	18.3	18.3	18.3	18.3	18.2	18.0	17.9	DX1-A22
	19.2	20.2	20.8	21.2	21.6	21.7	21.8	21.8	21.8	21.7	21.5	21.3	DX1-A24
	26.2	27.5	28.4	28.9	29.4	29.6	29.7	29.8	29.7	29.6	29.2	29.1	DX1-A28
	28.5	30.0	30.9	31.5	32.1	32.3	32.4	32.4	32.4	32.3	31.9	31.7	DX1-A30
	30.7	32.3	33.3	33.8	34.5	34.8	34.9	34.9	34.9	34.7	34.3	34.1	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R410A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
45	5.5	5.8	6.0	6.2	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.4	DX1-A13
	8.9	9.4	9.8	10.1	10.3	10.4	10.5	10.6	10.6	10.5	10.5	10.4	DX1-A16
	10.8	11.3	11.8	12.2	12.5	12.6	12.8	12.8	12.8	12.7	12.7	12.6	DX1-A18
	13.2	13.9	14.4	14.9	15.2	15.4	15.6	15.6	15.6	15.6	15.5	15.4	DX1-A20
	15.9	16.7	17.4	17.9	18.3	18.5	18.8	18.8	18.8	18.7	18.6	18.5	DX1-A22
	18.9	19.9	20.7	21.3	21.8	22.0	22.4	22.4	22.4	22.3	22.2	22.0	DX1-A24
	25.7	27.1	28.2	29.1	29.8	30.0	30.5	30.5	30.5	30.4	30.2	30.0	DX1-A28
	28.1	29.5	30.7	31.7	32.4	32.7	33.2	33.3	33.2	33.1	33.0	32.7	DX1-A30
	30.2	31.8	33.1	34.1	34.9	35.2	35.7	35.8	35.8	35.7	35.5	35.2	DX1-A32
40	5.2	5.6	5.9	6.1	6.3	6.4	6.5	6.6	6.6	6.6	6.6	6.5	DX1-A13
	8.4	9.0	9.5	9.9	10.1	10.4	10.6	10.6	10.7	10.7	10.6	10.5	DX1-A16
	10.2	10.9	11.5	11.9	12.3	12.6	12.8	12.8	12.9	12.9	12.8	12.8	DX1-A18
	12.5	13.3	14.0	14.6	15.0	15.4	15.6	15.7	15.8	15.8	15.7	15.6	DX1-A20
	15.0	16.0	16.9	17.5	18.1	18.5	18.8	18.9	19.0	19.0	18.9	18.8	DX1-A22
	17.9	19.1	20.1	20.9	21.5	22.0	22.4	22.5	22.7	22.6	22.5	22.3	DX1-A24
	24.3	26.0	27.4	28.5	29.3	30.0	30.5	30.6	30.9	30.8	30.7	30.5	DX1-A28
	26.5	28.4	29.9	31.0	32.0	32.7	33.3	33.4	33.7	33.6	33.4	33.2	DX1-A30
	28.6	30.5	32.1	33.4	34.4	35.2	35.8	35.9	36.3	36.2	36.0	35.7	DX1-A32
35	4.8	5.2	5.6	5.9	6.1	6.3	6.4	6.5	6.6	6.6	6.6	6.6	DX1-A13
	7.7	8.5	9.0	9.5	9.9	10.2	10.4	10.5	10.7	10.7	10.7	10.6	DX1-A16
	9.3	10.2	10.9	11.5	11.9	12.3	12.6	12.8	12.9	12.9	13.0	12.9	DX1-A18
	11.4	12.5	13.4	14.1	14.6	15.0	15.4	15.6	15.8	15.8	15.8	15.7	DX1-A20
	13.7	15.0	16.1	16.9	17.6	18.1	18.5	18.8	19.0	19.0	19.1	18.9	DX1-A22
	16.3	17.9	19.2	20.1	20.9	21.5	22.0	22.4	22.6	22.6	22.7	22.5	DX1-A24
	22.3	24.4	26.1	27.5	28.5	29.3	30.0	30.5	30.8	30.8	30.9	30.7	DX1-A28
	24.3	26.6	28.5	29.9	31.1	32.0	32.7	33.2	33.6	33.6	33.7	33.5	DX1-A30
	26.1	28.7	30.6	32.2	33.5	34.4	35.2	35.7	36.2	36.1	36.3	36.0	DX1-A32
30	4.1	4.7	5.2	5.6	5.9	6.1	6.3	6.4	6.5	6.5	6.6	6.5	DX1-A13
	6.6	7.6	8.4	9.0	9.5	9.9	10.2	10.4	10.4	10.5	10.6	10.5	DX1-A16
	8.0	9.3	10.2	10.9	11.5	12.0	12.3	12.6	12.6	12.8	12.8	12.8	DX1-A18
	9.7	11.3	12.4	13.3	14.1	14.6	15.1	15.4	15.4	15.6	15.7	15.6	DX1-A20
	11.7	13.6	15.0	16.0	17.0	17.6	18.1	18.5	18.6	18.8	18.9	18.8	DX1-A22
	13.9	16.2	17.8	19.0	20.2	21.0	21.6	22.0	22.1	22.3	22.5	22.4	DX1-A24
	19.0	22.1	24.3	26.0	27.6	28.6	29.4	30.0	30.1	30.5	30.7	30.5	DX1-A28
	20.7	24.1	26.5	28.3	30.0	31.2	32.0	32.7	32.9	33.2	33.4	33.2	DX1-A30
	22.3	25.9	28.5	30.4	32.3	33.5	34.5	35.2	35.4	35.7	36.0	35.8	DX1-A32

D A T A S H E E T

Condensing Temperature (°C)	R410A			Extended Capacity (kW)									Valve Model
				Evaporating Temperature (°C)									
	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
25	3.1	4.0	4.7	5.2	5.5	5.8	6.0	6.2	6.3	6.4	6.5	6.4	DX1-A13
	5.0	6.5	7.5	8.3	8.9	9.4	9.7	10.0	10.2	10.3	10.4	10.4	DX1-A16
	6.1	7.9	9.1	10.1	10.8	11.3	11.7	12.1	12.3	12.5	12.6	12.5	DX1-A18
	7.4	9.6	11.1	12.3	13.2	13.9	14.4	14.8	15.0	15.3	15.4	15.3	DX1-A20
	8.9	11.6	13.4	14.9	15.9	16.7	17.3	17.7	18.1	18.4	18.5	18.4	DX1-A22
	10.6	13.8	15.9	17.7	18.9	19.9	20.6	21.1	21.6	21.9	22.1	22.0	DX1-A24
	14.5	18.8	21.7	24.1	25.8	27.1	28.1	28.8	29.4	29.8	30.1	29.9	DX1-A28
	15.8	20.5	23.6	26.3	28.1	29.5	30.6	31.4	32.0	32.5	32.8	32.6	DX1-A30
	17.0	22.0	25.4	28.3	30.2	31.7	32.9	33.8	34.5	35.0	35.3	35.1	DX1-A32
20		3.0	3.9	4.6	5.1	5.4	5.7	5.9	6.1	6.2	6.2	6.3	DX1-A13
		4.8	6.3	7.3	8.2	8.7	9.2	9.5	9.8	9.9	10.1	10.2	DX1-A16
		5.8	7.7	8.9	9.9	10.6	11.1	11.5	11.8	12.0	12.2	12.3	DX1-A18
		7.1	9.4	10.9	12.1	12.9	13.6	14.1	14.4	14.7	14.9	15.0	DX1-A20
		8.6	11.3	13.1	14.6	15.6	16.3	16.9	17.4	17.7	17.9	18.1	DX1-A22
		10.2	13.4	15.6	17.3	18.5	19.5	20.2	20.7	21.1	21.3	21.5	DX1-A24
		13.9	18.3	21.2	23.6	25.3	26.5	27.5	28.2	28.7	29.1	29.3	DX1-A28
		15.2	20.0	23.1	25.8	27.6	28.9	30.0	30.7	31.3	31.7	32.0	DX1-A30
		16.4	21.5	24.9	27.7	29.7	31.1	32.2	33.1	33.7	34.1	34.4	DX1-A32
15		2.9	3.8	4.4	4.9	5.2	5.6	5.8	5.9	6.0	6.1	DX1-A13	
		4.6	6.1	7.2	7.9	8.5	9.0	9.3	9.5	9.7	9.8	DX1-A16	
		5.6	7.4	8.7	9.6	10.2	10.9	11.3	11.5	11.7	11.9	DX1-A18	
		6.8	9.0	10.6	11.7	12.5	13.3	13.8	14.1	14.4	14.5	DX1-A20	
		8.2	10.8	12.8	14.1	15.0	16.0	16.6	17.0	17.3	17.5	DX1-A22	
		9.8	12.9	15.2	16.8	17.9	19.0	19.7	20.2	20.6	20.8	DX1-A24	
		13.3	17.6	20.7	22.8	24.4	26.0	26.9	27.6	28.0	28.4	DX1-A28	
		14.5	19.1	22.6	24.9	26.6	28.3	29.3	30.0	30.6	30.9	DX1-A30	
		15.6	20.6	24.3	26.8	28.7	30.5	31.5	32.3	32.9	33.3	DX1-A32	
10		2.7	3.6	4.3	4.7	5.0	5.4	5.6	5.7	5.8	DX1-A13		
		4.3	5.9	6.9	7.6	8.1	8.7	9.0	9.2	9.3	DX1-A16		
		5.2	7.1	8.3	9.2	9.8	10.5	10.8	11.1	11.3	DX1-A18		
		6.3	8.7	10.2	11.3	12.0	12.8	13.3	13.6	13.8	DX1-A20		
		7.6	10.4	12.2	13.5	14.5	15.4	15.9	16.3	16.6	DX1-A22		
		9.1	12.4	14.6	16.1	17.3	18.3	19.0	19.4	19.8	DX1-A24		
		12.4	17.0	19.9	22.0	23.5	25.0	25.9	26.5	27.0	DX1-A28		
		13.5	18.5	21.7	23.9	25.6	27.3	28.2	28.9	29.4	DX1-A30		
		14.5	19.9	23.3	25.8	27.6	29.3	30.4	31.1	31.6	DX1-A32		

	DX1 Electronic Expansion Valve	Cooling Controls
	D A T A S H E E T	

General Disclosure

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