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DATE: April 1, 2019
TO: All Customers
FROM: Emerson Commercial & Residential Solutions
SUBJECT: Thermal Expansion Valve TA Launch
EFFECTIVE DATE: April 1, 2019



Emerson is pleased to announce the launch of the new thermal expansion valve TA, which is designed for multiple low capacity commercial refrigeration applications including showcase, cold-room, ice making machine, refrigerated truck and so on. The Key features of TA as below:

- Compatible with R22, R134a and R404a
- Capacity range: 0.82 to 19.8 kW @ R22
- Stable and accurate superheat control over wide load and evaporating temperature range
- Easy and precise static superheat adjustment
- High consistency of whole cycle
- 8 exchangeable orifices cover board capacity range and give flexibility of selection
- Cleanable inlet strainer, convenient for field maintains
- Internal or external equalizer available
- Flare or brazing outlet connections available
- Stainless-steel capillary and tube give excellent durability and avoid galvanic corrosion



MARKETING

BULLETIN

TA Valve Body Selection:

Refrigerant	PCN	Description	Charge Code	MOP	Application Temperature	Equalizer*		Inlet X Outlet X Equalizer
						EE	IE	
R22	066830	TAE HCS SAE 5FT	HCS	-	-40°C ~ +10°C	EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066831	TA HCS SAE 5FT	HCS			IE	-	3/8 SAE x 1/2 SAE
	066832	TAE HCS ODF 5FT	HCS			EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066833	TA HCS ODF 5FT	HCS			IE	-	3/8 SAE x 1/2 ODF
	066834	TAE HW100 ODF 5FT	HW100	6.9Bar	-40°C ~ +10°C	EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066835	TA HW100 ODF 5FT	HW100			IE	-	3/8 SAE x 1/2 ODF
	066836	TAE HW100 SAE 5FT	HW100			EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066837	TA HW100 SAE 5FT	HW100			IE	-	3/8 SAE x 1/2 SAE
R404a	066838	TAE SCS SAE 5FT	SCS	-	-40°C ~ +10°C	EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066839	TA SCS SAE 5FT	SCS			IE	-	3/8 SAE x 1/2 SAE
	066840	TAE SCS ODF 5FT	SCS			EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066841	TA SCS ODF 5FT	SCS			IE	-	3/8 SAE x 1/2 ODF
	066842	TAE SW75 SAE 5FT	SW75	5.2Bar	-40°C ~ +10°C	EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066843	TA SW75 SAE 5FT	SW75			IE	-	3/8 SAE x 1/2 SAE
	066844	TAE SW75 ODF 5FT	SW75			EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066845	TA SW75 ODF 5FT	SW75			IE	-	3/8 SAE x 1/2 ODF
R134a	066846	TAE MC SAE 5FT	MC	-	-25°C ~ +10°C	EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066847	TA MC SAE 5FT	MC			IE	-	3/8 SAE x 1/2 SAE
	066848	TAE MC ODF 5FT	MC			EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066849	TA MC ODF 5FT	MC			IE	-	3/8 SAE x 1/2 ODF
	066850	TAE MW55 SAE 5FT	MW55	3.8Bar	-25°C ~ +10°C	EE	1/4 SAE	3/8 SAE x 1/2 SAE x1/4 SAE
	066851	TA MW55 SAE 5FT	MW55			IE	-	3/8 SAE x 1/2 SAE
	066852	TAE MW55 ODF 5FT	MW55			EE	1/4 ODF	3/8 SAE x 1/2 ODF x1/4 ODF
	066853	TA MW55 ODF 5FT	MW55			IE	-	3/8 SAE x 1/2 ODF

*EE: External Equalizer; IE: Internal Equalizer.

TA Orifice Selection:

Orifice No.	PCN	Description	Nominal Capacity (KW)*		
			R22	R404a	R134a
X	067000	TAO-00X CAGE ASSEMBLY	0.82	0.55	0.60
0	067001	TAO-000 CAGE ASSEMBLY	1.65	1.05	1.20
1	067002	TAO-001 CAGE ASSEMBLY	3.45	2.20	2.50
2	067003	TAO-002 CAGE ASSEMBLY	4.7	3.00	3.40
3	067004	TAO-003 CAGE ASSEMBLY	7.8	5.00	5.65
4	067005	TAO-004 CAGE ASSEMBLY	12.5	8.00	9.05
5	067006	TAO-005 CAGE ASSEMBLY	17	10.90	12.30
6	067007	TAO-006 CAGE ASSEMBLY	19.8	12.75	14.30

*The nominal capacities are based upon +4°C dew point evaporating temperature, +38°C bubble point condensing temperature and 1K sub-cooling per Asercom standard.

Product Availability:

Accept customer orders from April 1, 2019, delivery from Suzhou Flow Control Plant.

For further information, please do not hesitate to contact your Emerson local sales representative.