

DATASHEET

TA thermal expansion valve is designed for multiple low capacity commercial refrigeration applications including showcase, cold-room, ice making machine, refrigerated truck and so on.

Key features:

- 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



TA Nomenclature:

Example: TAE HCS SAE 5FT

TA	E	H	C*	SAE	5FT
TA Series Take-apart Adjustable	Equalizer • E = External • Omit for Internal	Refrigerant Code • H=R22 • S=R404A • M=R134a	Charge Code • CS=medium and low temp. • W**(MOP)=press. limiting	Connection Type & Size (Inlet x Outlet x Equalizer) • SAE=Flare (3/8SAE x 1/2SAE x 1/4SAE) • ODF=Solder (3/8SAE x 1/2ODF x 1/4ODF) • Omit equalizer size for internal	Capillary Tube Length • 5FT (STD)

	TA Thermal Expansion Valve	Cooling Controls
DATASHEET		

TA Valve Body Selection:

Refrigerant	PCN	Description	Charge Code	MOP	Application Temperature	Equalizer*	Inlet X Outlet X Equalizer
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.

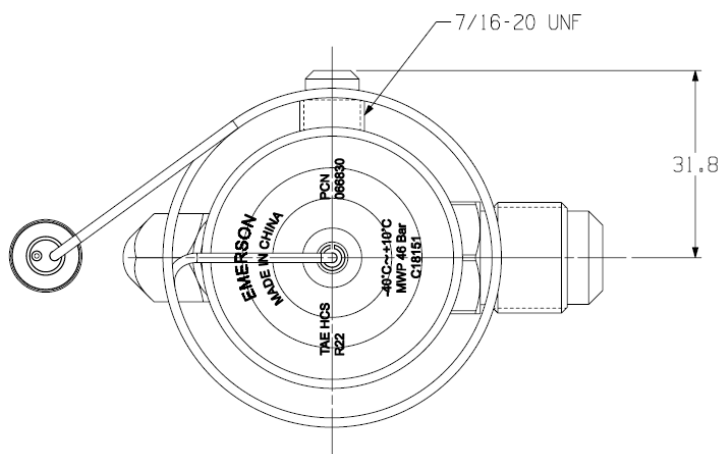
Static Superheat and Opening Superheat:

Refrigerant	Static Superheat Range	Static Superheat Omit	Opening Superheat	K/Turn in Adjustment (Evaporation temp. = 0 °C)
R134a	0~8K	4K	5K	~3.4K
R22			4.4K	~2.3K
R404A			3.3K	~1.9K

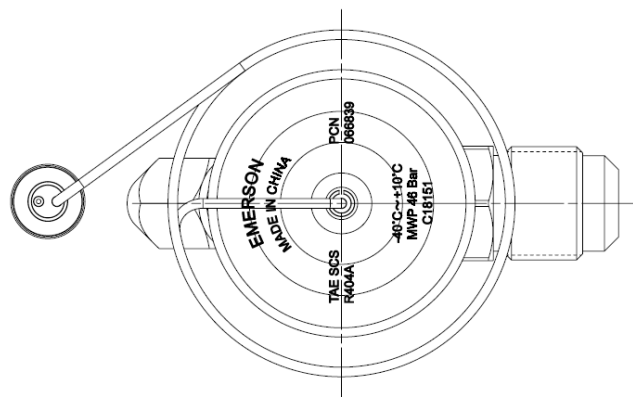
DATASHEET

Dimension (Unit: mm)

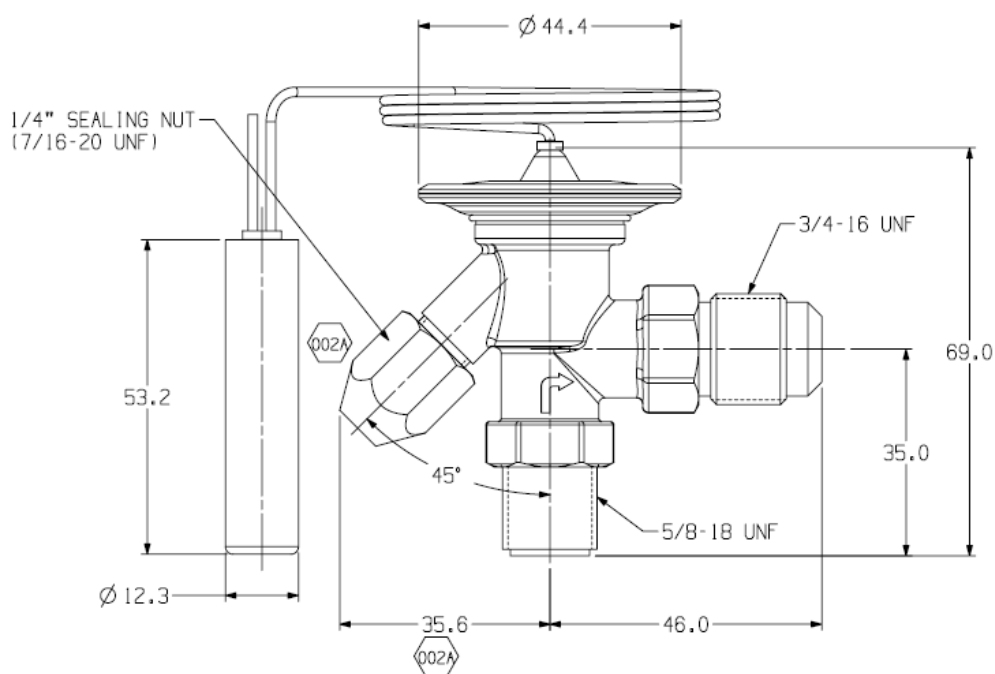
SAE x SAE:



External Equalizer Top View



Internal Equalizer Top View

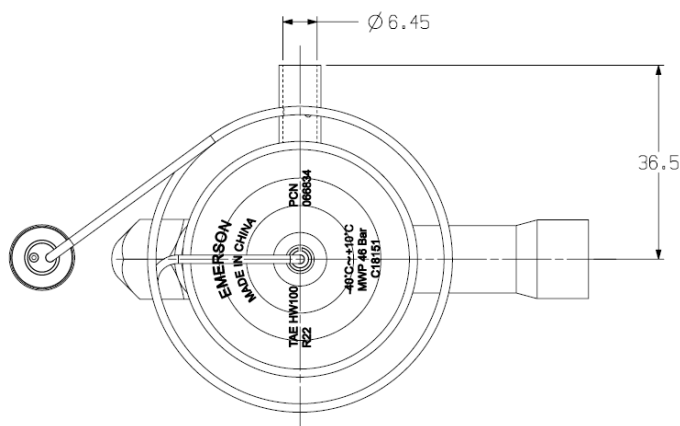


External/Internal Equalizer Front View

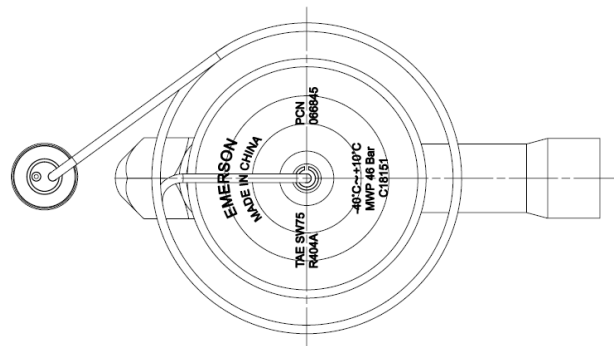
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Dimension (Unit: mm)

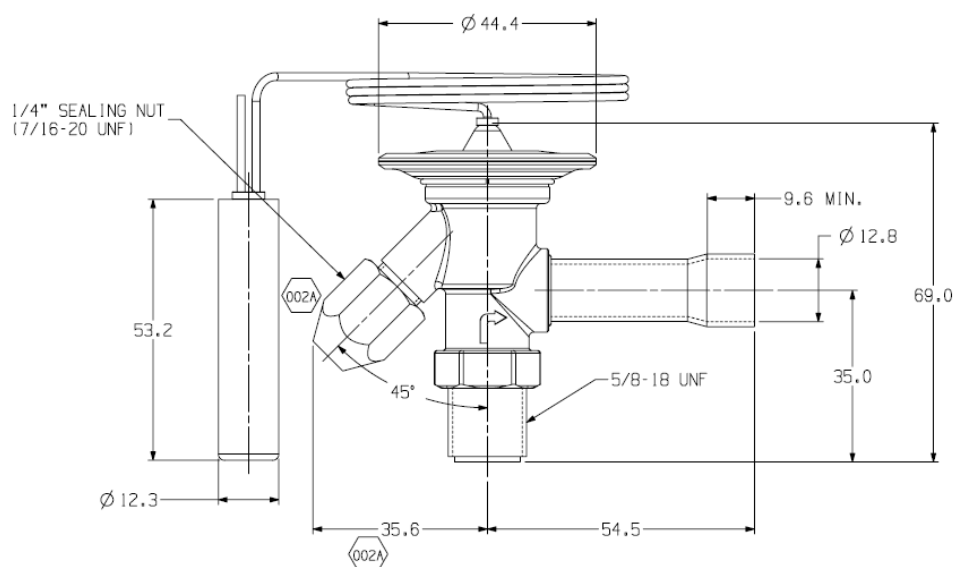
SAE x ODF:



External Equalizer Top View



Internal Equalizer Top View



External/Internal Equalizer Front View

General information:

Technical data are correct at the time of printing. Updates may occur, and should you need confirmation of a specific value, please contact Emerson clearly stating the information required.

Emerson cannot be held responsible for errors in capacities, dimensions, etc., stated herein. Products, specifications and data in this literature are subject to change without notice.

The information given herein is based on data and tests which Emerson believes to be reliable and which are in accordance with today's technical knowledge. It is intended for use by persons having the appropriate technical knowledge and skill, at their own discretion and risk.



TA Thermal Expansion Valve

Cooling Controls

DATASHEET

Quick Selection (Included 1.5 bar pressure drop for liquid line components and distributor)

Condensing Temperature (°C)	R22		Extended Capacity (kW)									Orifice Type
			Evaporating Temperature (°C)									
	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
60	0.85	0.86	0.87	0.88	0.88	0.88	0.87	0.87	0.86	0.85	0.84	TAO-00X
	1.70	1.73	1.75	1.76	1.77	1.76	1.75	1.74	1.72	1.70	1.68	TAO-000
	3.57	3.62	3.66	3.68	3.69	3.69	3.67	3.64	3.60	3.56	3.51	TAO-001
	4.86	4.94	4.99	5.02	5.03	5.02	5.00	4.96	4.91	4.85	4.78	TAO-002
	8.06	8.19	8.28	8.33	8.35	8.33	8.29	8.23	8.15	8.05	7.93	TAO-003
	12.92	13.13	13.28	13.36	13.38	13.36	13.30	13.19	13.07	12.91	12.72	TAO-004
	17.57	17.86	18.05	18.17	18.20	18.17	18.08	17.94	17.76	17.55	17.30	TAO-005
	20.46	20.80	21.03	21.16	21.20	21.16	21.07	20.90	20.70	20.44	20.15	TAO-006
55	0.84	0.85	0.87	0.88	0.88	0.88	0.88	0.88	0.87	0.86	0.85	TAO-00X
	1.67	1.71	1.74	1.75	1.76	1.77	1.76	1.76	1.74	1.72	1.70	TAO-000
	3.50	3.58	3.63	3.67	3.69	3.69	3.69	3.67	3.64	3.60	3.56	TAO-001
	4.76	4.87	4.95	5.00	5.03	5.04	5.03	5.00	4.97	4.92	4.85	TAO-002
	7.91	8.09	8.22	8.30	8.34	8.36	8.34	8.30	8.24	8.16	8.06	TAO-003
	12.68	12.96	13.17	13.31	13.38	13.40	13.38	13.31	13.21	13.08	12.91	TAO-004
	17.24	17.63	17.91	18.10	18.19	18.23	18.19	18.10	17.96	17.78	17.56	TAO-005
	20.08	20.53	20.86	21.07	21.19	21.22	21.18	21.08	20.92	20.71	20.46	TAO-006
50	0.80	0.83	0.85	0.86	0.87	0.88	0.88	0.87	0.87	0.86	0.85	TAO-00X
	1.62	1.67	1.70	1.73	1.75	1.76	1.76	1.75	1.74	1.73	1.71	TAO-000
	3.39	3.49	3.56	3.62	3.65	3.67	3.68	3.67	3.65	3.62	3.58	TAO-001
	4.61	4.75	4.86	4.93	4.98	5.00	5.01	5.00	4.97	4.93	4.88	TAO-002
	7.65	7.88	8.06	8.18	8.26	8.30	8.31	8.29	8.25	8.18	8.10	TAO-003
	12.26	12.63	12.91	13.11	13.24	13.31	13.32	13.29	13.22	13.12	12.98	TAO-004
	16.67	17.18	17.56	17.83	18.00	18.10	18.11	18.07	17.98	17.84	17.65	TAO-005
	19.42	20.01	20.46	20.77	20.97	21.07	21.10	21.05	20.94	20.78	20.57	TAO-006
45	0.77	0.80	0.82	0.84	0.85	0.86	0.87	0.87	0.86	0.86	0.85	TAO-00X
	1.54	1.61	1.65	1.68	1.71	1.73	1.73	1.74	1.73	1.72	1.71	TAO-000
	3.22	3.35	3.45	3.53	3.58	3.61	3.62	3.63	3.62	3.60	3.57	TAO-001
	4.39	4.56	4.70	4.80	4.87	4.92	4.94	4.94	4.93	4.91	4.87	TAO-002
	7.28	7.58	7.81	7.97	8.09	8.16	8.20	8.21	8.18	8.14	8.07	TAO-003
	11.67	12.15	12.51	12.78	12.97	13.09	13.15	13.16	13.12	13.05	12.94	TAO-004
	15.87	16.52	17.01	17.38	17.63	17.80	17.87	17.89	17.84	17.75	17.60	TAO-005
	18.49	19.24	19.82	20.24	20.54	20.73	20.82	20.84	20.78	20.67	20.50	TAO-006
40	0.72	0.75	0.78	0.81	0.83	0.84	0.85	0.85	0.85	0.85	0.84	TAO-00X
	1.44	1.52	1.58	1.63	1.66	1.68	1.69	1.70	1.70	1.70	1.69	TAO-000
	3.01	3.17	3.30	3.39	3.46	3.51	3.55	3.56	3.56	3.55	3.53	TAO-001
	4.09	4.32	4.49	4.62	4.72	4.79	4.83	4.85	4.85	4.84	4.81	TAO-002
	6.79	7.17	7.46	7.67	7.84	7.95	8.02	8.05	8.06	8.03	7.98	TAO-003
	10.89	11.49	11.95	12.30	12.56	12.74	12.85	12.91	12.91	12.87	12.79	TAO-004
	14.81	15.62	16.25	16.73	17.09	17.33	17.48	17.55	17.56	17.51	17.40	TAO-005
	17.24	18.20	18.93	19.49	19.90	20.18	20.36	20.44	20.45	20.39	20.27	TAO-006
35	0.65	0.70	0.74	0.77	0.79	0.80	0.82	0.83	0.83	0.83	0.83	TAO-00X
	1.30	1.41	1.48	1.54	1.59	1.62	1.65	1.65	1.66	1.66	1.65	TAO-000
	2.73	2.94	3.10	3.22	3.32	3.39	3.43	3.46	3.48	3.48	3.46	TAO-001
	3.72	4.00	4.22	4.39	4.52	4.61	4.68	4.72	4.73	4.73	4.72	TAO-002
	6.16	6.64	7.01	7.29	7.51	7.66	7.76	7.83	7.86	7.86	7.83	TAO-003
	9.88	10.65	11.24	11.69	12.03	12.28	12.44	12.55	12.59	12.59	12.55	TAO-004
	13.44	14.48	15.28	15.89	16.36	16.69	16.92	17.06	17.13	17.12	17.07	TAO-005
	15.65	16.86	17.80	18.51	19.05	19.44	19.71	19.88	19.95	19.95	19.88	TAO-006



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Condensing Temperature (°C)	R22		Extended Capacity (kW)									Orifice Type
			Evaporating Temperature (°C)									
	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
30	0.57	0.63	0.68	0.72	0.75	0.77	0.78	0.79	0.80	0.80	0.80	TAO-00X
	1.13	1.26	1.36	1.44	1.50	1.54	1.58	1.60	1.61	1.61	1.61	TAO-000
	2.38	2.65	2.85	3.01	3.13	3.22	3.29	3.33	3.36	3.37	3.37	TAO-001
	3.23	3.60	3.89	4.11	4.27	4.39	4.48	4.54	4.58	4.59	4.59	TAO-002
	5.36	5.98	6.45	6.81	7.08	7.29	7.43	7.53	7.59	7.62	7.61	TAO-003
	8.60	9.59	10.34	10.91	11.36	11.69	11.92	12.08	12.17	12.21	12.21	TAO-004
	11.70	13.04	14.06	14.84	15.44	15.89	16.21	16.43	16.55	16.61	16.60	TAO-005
	13.62	15.19	16.38	17.29	17.99	18.50	18.88	19.14	19.28	19.35	19.33	TAO-006
25	0.45	0.54	0.61	0.65	0.69	0.72	0.74	0.76	0.76	0.77	0.77	TAO-00X
	0.91	1.09	1.22	1.32	1.39	1.45	1.49	1.52	1.54	1.55	1.56	TAO-000
	1.91	2.28	2.55	2.75	2.91	3.03	3.11	3.17	3.21	3.24	3.24	TAO-001
	2.60	3.10	3.47	3.75	3.96	4.12	4.24	4.32	4.38	4.41	4.42	TAO-002
	4.31	5.15	5.76	6.22	6.57	6.84	7.03	7.17	7.27	7.32	7.34	TAO-003
	6.91	8.25	9.23	9.97	10.53	10.96	11.28	11.50	11.65	11.73	11.77	TAO-004
	9.39	11.22	12.55	13.56	14.33	14.90	15.33	15.64	15.84	15.95	16.00	TAO-005
	10.94	13.07	14.62	15.79	16.69	17.36	17.86	18.21	18.45	18.59	18.64	TAO-006
20	0.29	0.43	0.52	0.58	0.63	0.67	0.69	0.71	0.72	0.73	0.74	TAO-00X
	0.58	0.86	1.04	1.16	1.26	1.33	1.39	1.43	1.46	1.47	1.48	TAO-000
	1.21	1.79	2.16	2.43	2.63	2.79	2.90	2.98	3.04	3.08	3.10	TAO-001
	1.65	2.44	2.95	3.32	3.59	3.79	3.95	4.06	4.14	4.19	4.22	TAO-002
	2.74	4.05	4.89	5.50	5.95	6.30	6.55	6.74	6.87	6.96	7.01	TAO-003
	4.39	6.49	7.84	8.82	9.55	10.09	10.51	10.81	11.02	11.16	11.24	TAO-004
	5.97	8.83	10.66	11.99	12.97	13.73	14.28	14.70	14.99	15.17	15.28	TAO-005
	6.95	10.28	12.42	13.96	15.11	15.99	16.64	17.11	17.46	17.67	17.80	TAO-006
15		0.25	0.39	0.48	0.55	0.59	0.63	0.65	0.68	0.69	0.70	TAO-00X
		0.50	0.79	0.97	1.10	1.19	1.26	1.32	1.36	1.38	1.40	TAO-000
		1.04	1.65	2.03	2.30	2.50	2.65	2.75	2.83	2.89	2.93	TAO-001
		1.42	2.26	2.77	3.13	3.40	3.60	3.75	3.86	3.94	3.99	TAO-002
		2.36	3.74	4.60	5.20	5.65	5.98	6.23	6.41	6.53	6.62	TAO-003
		3.79	6.00	7.37	8.34	9.05	9.59	9.99	10.28	10.48	10.60	TAO-004
		5.15	8.16	10.02	11.34	12.31	13.04	13.58	13.98	14.25	14.42	TAO-005
		6.00	9.50	11.67	13.21	14.34	15.19	15.81	16.28	16.60	16.80	TAO-006
10			0.20	0.36	0.45	0.51	0.56	0.59	0.62	0.63	0.65	TAO-00X
			0.40	0.72	0.90	1.03	1.12	1.19	1.24	1.28	1.30	TAO-000
			0.83	1.50	1.89	2.15	2.34	2.49	2.59	2.67	2.72	TAO-001
			1.14	2.04	2.56	2.93	3.20	3.39	3.54	3.64	3.72	TAO-002
			1.88	3.39	4.26	4.86	5.30	5.63	5.87	6.05	6.16	TAO-003
			3.01	5.43	6.83	7.80	8.50	9.03	9.41	9.69	9.88	TAO-004
			4.10	7.39	9.28	10.60	11.56	12.27	12.79	13.17	13.44	TAO-005
			4.77	8.60	10.81	12.35	13.47	14.30	14.91	15.35	15.65	TAO-006



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Condensing Temperature (°C)	R404A		Extended Capacity (kW)									Orifice Type
			Evaporating Temperature (°C)									
	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
60	0.42	0.42	0.41	0.41	0.40	0.39	0.38	0.36	0.34	0.33	0.31	TAO-00X
	0.84	0.84	0.83	0.82	0.80	0.77	0.75	0.72	0.69	0.65	0.62	TAO-000
	1.76	1.76	1.73	1.70	1.67	1.62	1.57	1.51	1.44	1.37	1.30	TAO-001
	2.40	2.39	2.36	2.32	2.27	2.20	2.13	2.05	1.96	1.86	1.76	TAO-002
	3.98	3.97	3.93	3.86	3.77	3.66	3.54	3.40	3.25	3.09	2.92	TAO-003
	6.38	6.35	6.29	6.18	6.04	5.86	5.67	5.44	5.21	4.95	4.69	TAO-004
	8.67	8.64	8.55	8.40	8.21	7.98	7.71	7.40	7.08	6.73	6.37	TAO-005
	10.10	10.07	9.96	9.78	9.56	9.29	8.98	8.63	8.25	7.84	7.42	TAO-006
55	0.45	0.46	0.45	0.45	0.44	0.43	0.42	0.41	0.40	0.38	0.37	TAO-00X
	0.91	0.91	0.91	0.90	0.89	0.87	0.85	0.82	0.80	0.77	0.73	TAO-000
	1.90	1.91	1.91	1.89	1.86	1.82	1.78	1.72	1.67	1.60	1.53	TAO-001
	2.58	2.60	2.59	2.57	2.53	2.48	2.42	2.35	2.27	2.18	2.08	TAO-002
	4.29	4.32	4.31	4.27	4.21	4.12	4.02	3.90	3.77	3.62	3.47	TAO-003
	6.87	6.92	6.90	6.84	6.74	6.60	6.44	6.24	6.03	5.80	5.55	TAO-004
	9.34	9.40	9.38	9.29	9.16	8.98	8.75	8.49	8.20	7.88	7.55	TAO-005
	10.88	10.95	10.93	10.83	10.67	10.45	10.19	9.89	9.55	9.18	8.79	TAO-006
50	0.50	0.50	0.50	0.50	0.50	0.49	0.48	0.47	0.45	0.44	0.42	TAO-00X
	0.99	1.00	1.00	1.00	0.99	0.98	0.96	0.94	0.91	0.88	0.85	TAO-000
	2.07	2.09	2.10	2.09	2.08	2.05	2.00	1.96	1.90	1.84	1.78	TAO-001
	2.81	2.85	2.86	2.85	2.82	2.78	2.73	2.66	2.59	2.51	2.42	TAO-002
	4.68	4.74	4.75	4.74	4.69	4.63	4.53	4.42	4.31	4.17	4.02	TAO-003
	7.49	7.58	7.61	7.59	7.52	7.41	7.26	7.09	6.89	6.67	6.44	TAO-004
	10.19	10.31	10.35	10.32	10.22	10.07	9.88	9.64	9.37	9.07	8.75	TAO-005
	11.86	12.01	12.05	12.01	11.90	11.73	11.50	11.22	10.91	10.57	10.20	TAO-006
45	0.47	0.49	0.50	0.50	0.50	0.50	0.49	0.48	0.47	0.46	0.44	TAO-00X
	0.94	0.97	0.99	1.00	1.00	0.99	0.98	0.96	0.94	0.92	0.89	TAO-000
	1.99	2.04	2.07	2.09	2.08	2.07	2.05	2.01	1.97	1.92	1.87	TAO-001
	2.70	2.77	2.82	2.84	2.83	2.82	2.78	2.74	2.68	2.61	2.54	TAO-002
	4.49	4.61	4.68	4.71	4.71	4.68	4.63	4.55	4.45	4.34	4.22	TAO-003
	7.18	7.38	7.50	7.55	7.55	7.50	7.41	7.29	7.13	6.95	6.75	TAO-004
	9.77	10.04	10.20	10.27	10.26	10.20	10.08	9.90	9.69	9.45	9.18	TAO-005
	11.37	11.68	11.87	11.96	11.95	11.88	11.73	11.54	11.29	11.01	10.69	TAO-006
40	0.46	0.48	0.50	0.51	0.51	0.51	0.51	0.50	0.49	0.48	0.47	TAO-00X
	0.93	0.97	0.99	1.01	1.02	1.02	1.01	1.00	0.98	0.96	0.94	TAO-000
	1.94	2.02	2.08	2.11	2.13	2.13	2.12	2.09	2.06	2.02	1.97	TAO-001
	2.64	2.75	2.83	2.87	2.89	2.90	2.88	2.85	2.80	2.75	2.68	TAO-002
	4.39	4.57	4.70	4.78	4.81	4.81	4.79	4.74	4.66	4.57	4.46	TAO-003
	7.03	7.33	7.53	7.65	7.71	7.71	7.67	7.58	7.46	7.31	7.14	TAO-004
	9.56	9.96	10.24	10.40	10.48	10.48	10.42	10.31	10.15	9.94	9.71	TAO-005
	11.13	11.60	11.92	12.12	12.21	12.21	12.14	12.00	11.81	11.58	11.31	TAO-006
35	0.44	0.47	0.49	0.50	0.51	0.51	0.52	0.51	0.51	0.50	0.49	TAO-00X
	0.88	0.94	0.97	1.00	1.02	1.03	1.03	1.02	1.01	1.00	0.98	TAO-000
	1.84	1.96	2.04	2.09	2.13	2.15	2.15	2.14	2.12	2.08	2.05	TAO-001
	2.50	2.66	2.77	2.85	2.90	2.92	2.92	2.91	2.88	2.83	2.78	TAO-002
	4.16	4.42	4.61	4.74	4.82	4.86	4.86	4.83	4.79	4.71	4.63	TAO-003
	6.65	7.09	7.39	7.60	7.72	7.78	7.79	7.75	7.66	7.55	7.41	TAO-004
	9.05	9.63	10.04	10.32	10.49	10.58	10.59	10.53	10.42	10.26	10.07	TAO-005
	10.54	11.22	11.70	12.02	12.22	12.32	12.33	12.26	12.13	11.95	11.73	TAO-006



DATASHEET

Condensing Temperature (°C)	R404A		Extended Capacity (kW)									Orifice Type
			Evaporating Temperature (°C)									
	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	
30	0.40	0.44	0.47	0.49	0.50	0.51	0.51	0.51	0.51	0.51	0.50	TAO-00X
	0.80	0.88	0.93	0.97	1.00	1.02	1.02	1.03	1.02	1.01	1.00	TAO-000
	1.67	1.83	1.95	2.03	2.09	2.13	2.15	2.15	2.14	2.12	2.09	TAO-001
	2.27	2.49	2.65	2.77	2.85	2.89	2.92	2.92	2.91	2.88	2.84	TAO-002
	3.77	4.14	4.41	4.60	4.74	4.81	4.85	4.86	4.83	4.79	4.72	TAO-003
	6.03	6.63	7.07	7.37	7.58	7.71	7.77	7.78	7.74	7.67	7.56	TAO-004
	8.20	9.02	9.61	10.02	10.31	10.48	10.56	10.58	10.52	10.42	10.28	TAO-005
	9.56	10.50	11.19	11.68	12.00	12.21	12.31	12.32	12.26	12.13	11.97	TAO-006
25	0.34	0.39	0.43	0.46	0.48	0.50	0.50	0.51	0.51	0.51	0.50	TAO-00X
	0.67	0.78	0.86	0.92	0.96	0.99	1.00	1.01	1.01	1.01	1.00	TAO-000
	1.40	1.64	1.81	1.93	2.01	2.07	2.11	2.12	2.12	2.12	2.09	TAO-001
	1.91	2.23	2.46	2.62	2.74	2.82	2.86	2.89	2.89	2.88	2.85	TAO-002
	3.17	3.71	4.09	4.36	4.55	4.68	4.76	4.80	4.81	4.79	4.74	TAO-003
	5.09	5.94	6.54	6.98	7.29	7.50	7.63	7.69	7.70	7.67	7.60	TAO-004
	6.91	8.07	8.90	9.49	9.91	10.20	10.37	10.46	10.47	10.42	10.32	TAO-005
	8.05	9.41	10.37	11.05	11.54	11.87	12.08	12.18	12.19	12.14	12.02	TAO-006
20	0.24	0.32	0.38	0.42	0.45	0.47	0.49	0.49	0.50	0.50	0.50	TAO-00X
	0.47	0.65	0.76	0.84	0.90	0.94	0.97	0.99	1.00	1.00	0.99	TAO-000
	0.98	1.36	1.60	1.76	1.89	1.97	2.03	2.06	2.08	2.09	2.08	TAO-001
	1.34	1.85	2.17	2.40	2.57	2.68	2.76	2.81	2.83	2.84	2.83	TAO-002
	2.23	3.07	3.61	4.00	4.27	4.46	4.59	4.67	4.71	4.72	4.70	TAO-003
	3.58	4.92	5.78	6.40	6.84	7.14	7.35	7.48	7.55	7.56	7.52	TAO-004
	4.86	6.68	7.87	8.70	9.29	9.71	10.00	10.17	10.26	10.28	10.24	TAO-005
	5.66	7.78	9.16	10.13	10.82	11.31	11.64	11.85	11.95	11.97	11.92	TAO-006
15		0.22	0.31	0.37	0.41	0.44	0.46	0.47	0.48	0.48	0.49	TAO-00X
		0.43	0.62	0.73	0.82	0.88	0.91	0.94	0.96	0.97	0.97	TAO-000
		0.91	1.30	1.54	1.71	1.83	1.91	1.97	2.01	2.03	2.03	TAO-001
		1.23	1.76	2.09	2.33	2.49	2.61	2.68	2.73	2.76	2.76	TAO-002
		2.05	2.92	3.48	3.87	4.14	4.33	4.46	4.54	4.59	4.59	TAO-003
		3.28	4.69	5.58	6.19	6.63	6.94	7.14	7.28	7.34	7.35	TAO-004
		4.47	6.37	7.58	8.42	9.02	9.43	9.72	9.89	9.98	10.00	TAO-005
		5.20	7.42	8.82	9.81	10.50	10.98	11.32	11.52	11.62	11.65	TAO-006
10			0.19	0.29	0.35	0.39	0.42	0.44	0.45	0.46	0.47	TAO-00X
			0.38	0.58	0.70	0.78	0.84	0.88	0.91	0.93	0.93	TAO-000
			0.80	1.21	1.46	1.64	1.76	1.84	1.90	1.94	1.96	TAO-001
			1.09	1.65	1.99	2.22	2.39	2.51	2.59	2.63	2.66	TAO-002
			1.82	2.75	3.31	3.70	3.97	4.17	4.30	4.38	4.42	TAO-003
			2.92	4.40	5.31	5.93	6.37	6.67	6.88	7.01	7.08	TAO-004
			3.96	5.98	7.21	8.06	8.66	9.08	9.36	9.53	9.62	TAO-005
			4.61	6.96	8.40	9.38	10.08	10.57	10.90	11.10	11.21	TAO-006



DATASHEET

Condensing Temperature (°C)	R134a		Extended Capacity (kW)						Orifice Type
			Evaporating Temperature (°C)						
	10	5	0	-5	-10	-15	-20	-25	
60	0.59	0.59	0.59	0.59	0.58	0.57	0.56	0.55	TAO-00X
	1.19	1.19	1.19	1.19	1.17	1.15	1.13	1.10	TAO-000
	2.49	2.50	2.49	2.47	2.45	2.41	2.36	2.31	TAO-001
	3.39	3.41	3.40	3.37	3.33	3.28	3.22	3.15	TAO-002
	5.63	5.66	5.64	5.60	5.54	5.45	5.35	5.23	TAO-003
	9.03	9.07	9.05	8.98	8.88	8.73	8.57	8.38	TAO-004
	12.27	12.32	12.30	12.21	12.07	11.88	11.65	11.39	TAO-005
	14.30	14.36	14.32	14.22	14.05	13.83	13.57	13.27	TAO-006
55	0.58	0.59	0.59	0.59	0.59	0.58	0.57	0.56	TAO-00X
	1.17	1.19	1.19	1.19	1.18	1.17	1.15	1.13	TAO-000
	2.45	2.48	2.49	2.48	2.47	2.44	2.40	2.36	TAO-001
	3.34	3.38	3.39	3.39	3.36	3.32	3.27	3.21	TAO-002
	5.55	5.61	5.63	5.62	5.58	5.52	5.43	5.34	TAO-003
	8.90	8.99	9.03	9.01	8.95	8.85	8.71	8.55	TAO-004
	12.09	12.23	12.27	12.25	12.16	12.03	11.84	11.63	TAO-005
	14.09	14.25	14.30	14.27	14.17	14.02	13.80	13.54	TAO-006
50	0.56	0.58	0.58	0.58	0.58	0.58	0.57	0.56	TAO-00X
	1.13	1.16	1.17	1.18	1.18	1.17	1.15	1.13	TAO-000
	2.38	2.42	2.45	2.46	2.45	2.44	2.41	2.38	TAO-001
	3.24	3.30	3.34	3.35	3.35	3.32	3.29	3.24	TAO-002
	5.38	5.49	5.55	5.57	5.56	5.52	5.46	5.38	TAO-003
	8.62	8.79	8.89	8.93	8.91	8.85	8.75	8.62	TAO-004
	11.72	11.95	12.08	12.13	12.11	12.03	11.90	11.73	TAO-005
	13.65	13.92	14.08	14.14	14.11	14.02	13.86	13.65	TAO-006
45	0.53	0.55	0.56	0.57	0.57	0.57	0.57	0.56	TAO-00X
	1.08	1.11	1.13	1.15	1.15	1.15	1.14	1.13	TAO-000
	2.26	2.33	2.38	2.40	2.41	2.41	2.39	2.36	TAO-001
	3.08	3.17	3.24	3.28	3.29	3.28	3.26	3.23	TAO-002
	5.11	5.27	5.38	5.44	5.46	5.45	5.42	5.36	TAO-003
	8.19	8.45	8.62	8.72	8.75	8.74	8.68	8.59	TAO-004
	11.14	11.49	11.72	11.85	11.90	11.88	11.80	11.68	TAO-005
	12.97	13.38	13.65	13.80	13.86	13.84	13.75	13.60	TAO-006
40	0.49	0.52	0.54	0.55	0.55	0.56	0.56	0.55	TAO-00X
	1.00	1.05	1.08	1.11	1.12	1.13	1.12	1.12	TAO-000
	2.09	2.19	2.26	2.31	2.34	2.35	2.35	2.33	TAO-001
	2.85	2.99	3.09	3.15	3.19	3.20	3.20	3.18	TAO-002
	4.73	4.96	5.13	5.23	5.29	5.32	5.31	5.27	TAO-003
	7.59	7.96	8.22	8.39	8.49	8.53	8.51	8.45	TAO-004
	10.32	10.83	11.18	11.41	11.53	11.59	11.57	11.49	TAO-005
	12.02	12.61	13.02	13.29	13.44	13.50	13.48	13.39	TAO-006
35	0.44	0.48	0.50	0.52	0.53	0.54	0.54	0.54	TAO-00X
	0.90	0.96	1.01	1.05	1.07	1.08	1.08	1.08	TAO-000
	1.87	2.01	2.11	2.19	2.23	2.26	2.27	2.27	TAO-001
	2.55	2.75	2.89	2.98	3.04	3.08	3.09	3.09	TAO-002
	4.24	4.56	4.79	4.95	5.05	5.11	5.13	5.13	TAO-003
	6.79	7.31	7.68	7.94	8.10	8.20	8.23	8.23	TAO-004
	9.24	9.94	10.44	10.79	11.02	11.14	11.19	11.18	TAO-005
	10.76	11.58	12.16	12.56	12.83	12.99	13.04	13.02	TAO-006



DATASHEET

Condensing Temperature (°C)	R134a		Extended Capacity (kW)						Orifice Type
			Evaporating Temperature (°C)						
	10	5	0	-5	-10	-15	-20	-25	
30	0.38	0.42	0.46	0.48	0.49	0.50	0.51	0.51	TAO-00X
	0.75	0.85	0.92	0.97	1.00	1.02	1.03	1.04	TAO-000
	1.58	1.78	1.92	2.02	2.10	2.14	2.17	2.17	TAO-001
	2.15	2.43	2.62	2.76	2.85	2.92	2.95	2.97	TAO-002
	3.57	4.03	4.35	4.58	4.74	4.84	4.90	4.92	TAO-003
	5.73	6.45	6.97	7.34	7.59	7.76	7.85	7.89	TAO-004
	7.79	8.77	9.48	9.98	10.33	10.55	10.68	10.73	TAO-005
	9.07	10.22	11.04	11.62	12.03	12.29	12.44	12.50	TAO-006
25	0.28	0.35	0.39	0.43	0.45	0.47	0.48	0.49	TAO-00X
	0.56	0.70	0.80	0.87	0.91	0.95	0.97	0.98	TAO-000
	1.16	1.47	1.67	1.82	1.92	1.98	2.03	2.05	TAO-001
	1.59	2.00	2.28	2.47	2.61	2.71	2.77	2.80	TAO-002
	2.63	3.32	3.78	4.10	4.33	4.49	4.59	4.65	TAO-003
	4.22	5.32	6.06	6.58	6.95	7.20	7.36	7.46	TAO-004
	5.74	7.23	8.24	8.95	9.44	9.78	10.01	10.13	TAO-005
	6.68	8.43	9.60	10.42	11.00	11.40	11.66	11.81	TAO-006
20	0.08	0.24	0.32	0.37	0.40	0.42	0.44	0.45	TAO-00X
	0.16	0.49	0.64	0.74	0.81	0.85	0.89	0.91	TAO-000
	0.32	1.02	1.34	1.55	1.69	1.79	1.86	1.90	TAO-001
	0.44	1.39	1.82	2.11	2.31	2.44	2.54	2.60	TAO-002
	0.74	2.30	3.03	3.50	3.83	4.05	4.21	4.31	TAO-003
	1.18	3.69	4.85	5.61	6.13	6.50	6.75	6.91	TAO-004
	1.60	5.01	6.59	7.62	8.33	8.83	9.17	9.39	TAO-005
	1.86	5.84	7.68	8.88	9.71	10.29	10.69	10.95	TAO-006
15			0.20	0.28	0.33	0.37	0.39	0.41	TAO-00X
			0.40	0.57	0.67	0.74	0.79	0.82	TAO-000
			0.84	1.18	1.40	1.55	1.65	1.72	TAO-001
			1.14	1.61	1.91	2.11	2.25	2.35	TAO-002
			1.89	2.68	3.17	3.51	3.73	3.89	TAO-003
			3.02	4.30	5.08	5.62	5.98	6.24	TAO-004
			4.11	5.84	6.90	7.64	8.14	8.48	TAO-005
			4.79	6.80	8.05	8.89	9.48	9.88	TAO-006
10				0.14	0.24	0.29	0.33	0.35	TAO-00X
				0.28	0.48	0.59	0.66	0.71	TAO-000
				0.59	1.00	1.23	1.39	1.49	TAO-001
				0.80	1.37	1.68	1.89	2.03	TAO-002
				1.32	2.26	2.79	3.13	3.37	TAO-003
				2.12	3.63	4.47	5.03	5.41	TAO-004
				2.90	4.93	6.08	6.83	7.35	TAO-005
				3.37	5.75	7.08	7.97	8.57	TAO-006