## HVAC & REFRIGERATION Thermostatic Expansion Valves & Refrigeration Controls



Capacity is at ARI standard 750-70; at  $10^{\circ}$ F liquid subcooling. Not for use with ammonia.

Darker

Thermostatic Expansion Valves

1ZRD4

Nom.	Connection	Connec Inlet	tor (in.) Outlet	Equalizer	Mfr. Model	Item No.
ap. (tons) <b>(diustable E</b>	Balanced Port Expansi	on Valves	Junet	Туре	Wouer	NU.
-134A Refr	igerant					
1/6 to 1⁄4	SAE Flare Angle	1/4	1/2	Internal	C-AA-JW	1ZRE
1/6 to 1⁄4	Straight Through	1/4	1/2	Internal	EC-AA-JW	1ZRE
1/2 to 1	Solder SAE Flare Angle	3/8	1/2	Internal	CAJW	5A43
	Straight Through					
1⁄8 to 8	Solder	3/8	1/2	Internal	EC-A-JW	1ZRE
1 to 2	Angle Solder	3/8	1/2	External	SCE-B-JW	1ZRF
1 to 2	Straight Through	1/2	5/8	External	ECE-B-JW	1ZRE
2 to 3	Solder SAE Flare Angle	3/8	1/2	Internal	CCJW	6X23
2 to 3	SAE Flare Angle	3/8	1/2	External	CECJW	6X23
1 to 2	SAE Flare Angle SAE Flare Angle	3/8	5/8	External	CEBJW	5A43
2 to 3	Straight Through	1/2	7/8	External	ECE-C-JW	1ZRE
	Solder			LAGINA	LOL O UW	12111
14 to 16	pact Adjustable, Non- SAE Flare Angle	Balanced	16	Internal	N 1/2 JW	3A66
-12/R-1344	Compact Adjustable,	Non-Rala	nced Port	IIIteIIIdi	IN 72 JVV	3A00
1 to 2	SAE Flare Angle	3/8	1/2	Internal	N2JW	6X24
-22 Refrige	erant					
1/3 to 1/2	SAE Flare Angle	1/4	1/2	Internal	CAAVX35	1H76
<sup>1</sup> / <sub>3</sub> to <sup>1</sup> / <sub>2</sub> 2 to 3	SAE Flare Angle	1/4 3/8	1/2 1/2	Internal	CAAVW CEBVX100	1H76 1ZRD
	SAE Flare Angle Straight Through			External		
7½ to 8	Solder	5⁄8	7/8	External	EBSE8VX100	1ZRD
10 to 11	Straight Through Solder	5⁄8	7⁄8	External	EBSE11VX100	1ZRD
15	Straight Through Solder	7/8	1 1/8	External	EBSE15VX100	1ZRD
15	Straight Through	7/8	1 1/8	External	0E-15-VX100	1ZRE
20	Solder Straight Through	7/8	1 3/8	External	0E-20-VX100	1ZRE
30	Solder Straight Through	1 1/8	1 3/8	External	0E-30-VX100	1ZRE
	Solder Straight Through					
40	Solder Straight Through	1 1/8	1 3/8	External	0E-40-VX100	1ZRE
1/3 to 1/2	Solder Straight Through	1/4	1/2	External	ECE-AA-VZ	1ZRG
3/4 to 1 1/2	Solder Straight Through	3/8	1/2	External	ECE-A-VZ	1ZRG
1½ to 3	Solder	3⁄8	1/2	External	ECE-B-VZ	1ZRG
½ to ½ ¾ to 1½	Angle Solder Angle Solder Angle Solder	1/4	1/2	External	SCE-AA-VZ	1ZRG
3/4 to 11/2	Angle Solder	3/8	1/2	External	SCE-A-VZ	1ZRH
1½ to 3	Angle Solder	3/8	1/2	External	SCE-B-VZ	1ZRH
<sup>3/4</sup> to 1 <sup>1/2</sup> 1 <sup>1/2</sup> to 3	SAE Flare Angle SAE Flare Angle	1/4 3/8	1/2 1/2	External External	CEAVW CEBVW	4E63 4E63
<sup>1</sup> / <sub>2</sub> to 3 ¾ to 1½	SAE Flare Angle	3/8	1/2	External	CEAVX35	4E03
<sup>94</sup> to 1 <sup>1</sup> /2	SAE Flare Angle	3/8	1/2	Internal	C 41/14/	5444
3 to 5	SAE Flare Angle	3/8	1/2	Internal	CCVW	5A44
3 to 5	SAE Flare Angle	3/8	1/2	Internal	CCVX100	6X23
31/2 to 5	SAE Flare Angle SAE Flare Angle SAE Flare Angle SAE Flare Angle	3/8	1/2	External	CCVW CCVX100 CECVX100	6X24
-404A Refr	Igerant					
1/6 to 1/4	SAE Flare Angle SAE Flare Angle	1/4 3/8	1/2	Internal	C-AA-SZ C-A-SZ	1ZRF 1ZRF
<sup>1</sup> / <sub>2</sub> to 1 1 to 2	SAE Flare Angle		1/2	Internal External	CE-B-SZ	1ZRF
2 to 31/2	SAE Flare Angle	3/8	1/2	External	CE-C-SZ	1ZRF
1/6 to 1/4	Straight Through Solder	1/4	1/2	Internal	EC-AA-SZ	1ZRF
½ to 1	Straight Through	3⁄8	1/2	Internal	EC-A-SZ	1ZRF
1 to 2	Solder Straight Through	1/2	1/2	External	ECE-B-SZ	1ZRG
2 to 3½	Solder Straight Through Solder	3/8	1/2	External	ECE-C-SZ	1ZRG
	Solder Angle Solder	3/8	1/2	External	SCE-B-SZ	1ZRG
1 to 2	Angle Solder	9/8 3/8		Internal	CASM	5A43
½ to 1 ½ to 1	SAE Flare Angle SAE Flare Angle SAE Flare Angle	3/8	1/2 1/2	Internal	CASW CASX35 CCSW	5A43
2 to 31/2	SAE Flare Angle	3/8	1/2	Internal	CCSW	5A43
2 to 31/2 2 to 31/2	SAE Flare Angle	3/8	1/2	External	CECSW	5A43
-410A Refr	igerant Straight Through					
5 to 8	Solder	5⁄8	7⁄8	External	ECE-D-ZX200	11X59
3 to 121/2	Straight Through Solder Straight Through	5⁄8	1 1/8	External	ECE-12.5-ZX200	
21/2 to 15	Straight Through Solder	5⁄8	1 1/8	External	ECE-15-ZX200	11X59
onstant Pro	essure Adjustable, No	n-Balance	d Port, All	Refrigerant	ts A D	4X85
88 to 4.24	SAE Flare Angle Inlet SAE Flare Angle	1/4	1/2	External	A-2	4800

## Refrigeration Controls

3XL11 terminates defrost and delays the evaporator fan operation on electric heat, hot gas, and reverse cycle commercial refrigeration systems. 3XL05 and 3XL06 provide off-cycle defrost. Generally used in systems without hot gas or electric defrost



12Z392

1ZRE8	defrost.							
6X237 6X239 5A435	Type Freezer Control	Voltage	Control Range (°F)	Capillary Type	Capillary L (in.)	Brand	Mfr. Model	ltem No.
1ZRE9	Constant Differential Control	24/120/240/277	-3 to 5.5	Capillary	84	Ranco	A30-301	4E048
3A664	Extra Low Temp.	120/240	-35 to 15	Capillary	72	Ranco	010-1419	12Z392
6X245	Extra Low Temp.	120/240	-35 to 15	Capillary w/ Bulb Sensor	72	Ranco	010-1433	12Z393
1H767 1H768	Low Temp.	120/240	-15 to 40	Capillary w/Air Coil Sensor	_	Ranco	010-1072	12Z394
1ZRD4	Med. Temp.	120/240	-12 to 15	Capillary w/ Bulb Sensor	47 1⁄4	Ranco	K50Q- 1126-001	6KXG4
1ZRD5	Soft Ice Cream Machine	120/240	-15 to 40	Capillary	72	Ranco	016-588	12Z399
1ZRD6	Refrigeration C	ontrols		0				
1ZRD7	Bulk Milk Cooler	120/240	22.5 to 47.5	DUID SELISOI	72	Ranco	016-601	12Z401
1ZRE1	High Temp.	120/240	25 to 75	Capillary w/Air Coil Sensor	-	Ranco	010-1802	12Z397
1ZRE2	High Temp.	120/240	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	010-1491	12Z398
1ZRE3 1ZRE4	Constant Differential Control	24/120/240/277	32 to 42	Capillary	84	Ranco	A30-261	4E051
1ZRG6	Constant Differential Control	120/240	32 to 61	Capillary	48	Ranco	A30-2210	<b>3XL09</b> †
1ZRG7	Med. Temp.	120/208/240V	19 to 38	Capillary w/ Bulb Sensor	72	Ranco	A12-1560	6KXC4
1ZRG8 1ZRG9 1ZRH1	Med. Temp.	120	25 to 75	Capillary w/Air Coil Sensor	_	Ranco	010-1418	1A005
1ZRH2 4E638	Med. Temp.	120/240	34 to 55	Capillary w/ Bulb Sensor	47 1⁄4	Ranco	K50Q- 1127-001	6KXG5
4E639		r Freezer Control		Baib Control			1127 001	
4E642	Temporary Control	120/240	-5F to +38F	Capillary	9	Robertshaw	CC-1	3PE19
5A440 5A442	Refrigeration/F	reezer Controls						
6X238 6X240	Constant Differential Control	24/120/240/277	3 to 43	Capillary	84	Ranco	A30-262	4E050
1ZRF4 1ZRF5	Med. Temp.	24	-15 to 40	Capillary w/ Bulb Sensor	72	Ranco	010-1409	1A003
1ZRF6	Med. Temp.	24	-2 to 38	Capillary	72	Ranco	010-1408	1A002 *
1ZRF7	Med. Temp.	120/240	0 to 47	Capillary w/ Bulb Sensor	47 1⁄4	Ranco	K50Q- 1125-001	6KXG3
1ZRF8	Med. Temp.	240	0 to 55	Capillary	72	Ranco	010-1416	1A020
1ZRF9	Med. Temp.	120	25 to 75	Capillary w/ Bulb Sensor	72	Ranco	010-1410	1A004
1ZRG1	Med. Temp.	120/240	0 to 55	Capillary	0 to 55	Ranco	010-1010	12Z395
	Med. Temp.	120/240	0 to 55	Capillary w/ Bulb Sensor	72	Ranco	010-1473	12Z396
1ZRG2	Med. Temp.	120/240	0 to 55	Capillary	72	Ranco	016-111	12Z402
1ZRG5 5A436	Med. Temp. Med. Temp.	120/240 120/240	0 to 55 0 to 55	Capillary Capillary	72 96	Ranco Ranco	o16-104 o16-264	12Z403 12Z404
5A437	Med. Temp.	120/240	0 to 55	Capillary w/	72	Ranco	016-263	12Z405
5A438 5A439		d Defrost Contro	ls	Bulb Sensor				
11X594	Defrost Control	120/240	40 to 75	Cross Ambient Bulb	60	Ranco	F25-107	3XL11
11X595	Constant Cut In Cold Control	120/240	18 to 27	Capillary	84	Ranco	A12-700	3XL05
11X596	Constant Cut In Control	120/240	35 to 41	Capillary	84	Ranco	A12-701	3XL06
4X859	Water Cooler Co OEM		074-01	Oraillan	40	Danas	14 0001	01/1 4.0
5A446	Replacement	120/208/240	37 to 61	Capillary	48	Ranco	K-3001	3XL12
-	* Air coil. † Not	adaptable; direc	t tit with dia	i snaft.				

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