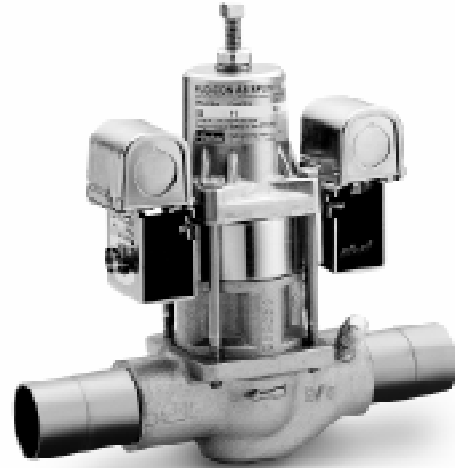


# (S)PORT - (S)PORT-II Evaporator Pressure Regulators

## Features

- Highest capacity commercial regulator in the industry
- Sweat-in-place without disassembly
- Interchangeable capacity cartridges
- Low Pressure Drop
- Manual Opening Stem
- Variations include electric shut-off along with bypass and shut-off feature
- (S)PORT-II with corrosion resistant aluminium bronze construction
- All stainless steel bolts, stem, locking nut, piston and plug
- Dual voltage 208/240/50-60 Hz coil



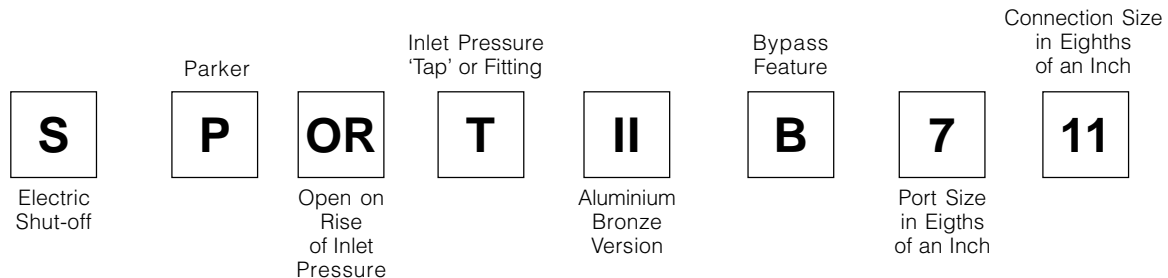
## Specifications

- Design pressure (M.R.P.) 31.0 bar
- Minimum fluid temperature -40°C
- Operating range : 250mm Hg to 8.3 bar
- UL listed (except 50 Hz versions), file SA5473
- CSA certified, file LR20991-14

## Standard Voltages

- 120V/60Hz, 110V/50Hz
- 208V/240V/60Hz, 220V/50Hz
- 240V/50Hz
- 240V/60Hz, 220V/50Hz (DIN)
- 240V/50Hz (DIN)

## Valve Nomenclature



## (S)PORT Port/Connection Size Combinations

Type	Port Size	Connection Sizes Available
(S)PORT or (S)PORT-II	03 (3/8", 9mm)	07, 09, 11, 13, 17 (7/8" /22mm, 1-1/8" /28mm, 1-3/8" /35mm, 1-5/8" /42mm, 2-1/8" /54mm)
	05 (5/8" 15mm)	07, 09, 11, 13, 17 (7/8" /22mm, 1-1/8" /28mm, 1-3/8" /35mm, 1-5/8" /42mm, 2-1/8" /54mm)
	07 (7/8", 22mm)	07, 09, 11, 13, 17 (7/8" /22mm, 1-1/8" /28mm, 1-3/8" /35mm, 1-5/8" /42mm, 2-1/8" /54mm)
	09 (1-1/8", 28mm)	07, 09, 11, 13, 17 (7/8" /22mm, 1-1/8" /28mm, 1-3/8" /35mm, 1-5/8" /42mm, 2-1/8" /54mm)
	11 (1-3/8", 35mm)	09, 11, 13, 17 (1-1/8" /28mm, 1-3/8" /35mm, 1-5/8" /42mm, 2-1/8" /54mm)
(S)PORT	13 (1-5/8", 42mm)	13, 17, 21 (1-5/8" /42mm, 2-1/8" /54mm, 2-5/8" /66mm)
	17 (2-1/8", 54mm)	17, 21 (2-1/8" /54mm, 2-5/8" /66mm)
	21 (2-5/8", 66mm)	21 (2-5/8", 66mm)

\*(Note : (S)PORT-II regulators have same port/connection as standard (S)PORT regulators but are not available in the 13, 17, or 21 port size versions.)

# (S)PORT - (S)PORT-II Evaporator Pressure Regulators

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**Description :** Unlike other Parker Refrigerating Specialties regulators, (S)PORT regulators utilise a unique numbering system identifying port & connection size values in eighths of an inch (see previous page). For example, a 7/8" port size by 1-1/8" connection size valve would be identified as a (S)PORT 07-09, with the valves port size being the first numerical value in the description (in eighths of an inch), and the connection size being the second value. All (S)PORT cartridges are externally stamped with the plug or port size using the same numbering system for field identification purposes. (S)PORT evaporator pressure regulators are available in two versions, each with their own distinct material characteristics; the original (S)PORT, and the (S)PORT-II. The original (S)PORT utilises a ductile iron body with brazed copper couplings along with a ductile iron cartridge assembly. The original (S)PORT is available in eight port sizes ranging from 3/8" (03) to 2-5/8" (21) and with connection sizes up to 2-5/8" (21). A 1/4" SAE flare access fitting is standard on the upstream side of the valve's cartridge assembly. An open frame, class F leaded coil is provided as standard with all (S)PORT regulators. A class H coil with DIN connector is also available with certain voltages.

The (S)PORT-II, a more recent introduction, is made completely with corrosion resistant materials. Both the body and cartridge are an aluminium-bronze material, with the adapter and bonnet being aluminium. In addition, stainless steel bonnet bolts and adjusting stems are standard on all (S)PORT-II regulators. In contrast to the original (S)PORT, five port sizes are offered with the (S)PORT-II style of regulator, ranging from 3/8" (03) to 1-3/8" (11). The same open-frame coil housing which is standard on the (S)PORT is supplied with the (S)PORT-II. The access fitting on the (S)PORT-II is located on the upstream side of the valve body, and positioned to easily connect a gauge fitting for servicing. The (S)PORT-II design specifically targets the rigorous application of a commercial evaporator pressure regulator - particularly those applications with hot gas defrost circuits. The corrosion resistant design of the (S)PORT-II is capable of withstanding the cooling and heating cycles to which these types of regulators are continually exposed.

All (S)PORT regulators are designed to be applied as a low side (evaporator) pressure regulator only. They are capable of being set to control pressures within a 250mm Hg through 8.3 bar range. For high side regulator applications, the Refrigerating Specialties A8 regulator should be considered.

**Variations:** PORT or PORT-II: Standard Inlet pressure regulator, (S)PORT or (S)PORT-II: Inlet pressure regulator with an electric shut-off feature. (S)PORT-B or (S)PORT-II-B: Inlet pressure regulator with an electric shut-off and electric wide opening, (bypass) feature.

**Installation :** (S)PORT regulators use a spring loaded solenoid plunger design which assists the plunger in closing off tightly against the solenoid pilot seat regardless of position or orientation. The regulator can therefore be installed in either a horizontal or vertical pipe line regardless of the type of (S)PORT valve being installed (i.e. with or without a pilot solenoid).

When brazing in line, typically a wet cloth wrapped around the valve body is recommended to dissipate heat. If a valve is disassembled prior to installation, always have the correct gasket/O-ring kit available for reassembly. The internal cartridge-to-body O-ring will need to be replaced prior to reassembly.

**Adjustment:** Adjustment of a regulators set point requires that the pressure being controlled be monitored by an accurate pressure gauge. Turning the valves adjusting screw clockwise (into the bonnet) compresses the range spring and subsequently raises the valves set point. Conversely, turning the adjusting stem counter-clockwise will decrease the valves set point. Adjusting the set point of a (S)PORT regulator must be made with the solenoid energised, and the manual opening stem turned in. The inlet side solenoid only is required to be energised to adjust the set point on a (S)PORT-B. Depending on system design and system conditions, the pressure gauge may reflect some delay before a change in a regulator's set point actually results in a change in the pressure being maintained.

**Electrical:** All (S)PORT regulator versions utilise a moulded water resistant class "F" solenoid coil with open frame housing as standard. A class "H" DIN coil is also available with certain voltages. Coils are designed to operate with line voltage from 85% to 110% of rated coil voltage. Operating with a coil voltage above or below these limits may result in coil burnout. Also, operating with a coil voltage below this limit will result in lowering the valves maximum opening pressure differential, or MOPD. Power consumption during normal operation will be 10 watts or less. The 208/240/50-60Hz wide voltage range coil used on all (S)PORT regulators is rated at 280 MOPD. All other coils are rated at 300 MOPD.

**Ordering Guide:** specify valve type (PORT, (S)PORT, (S)PORT-II etc), port and connection size in eighths of an inch (port size indicated first), and voltage, if applicable.

# A8, (S)PORT & SC Suction Capacities (Kilowatts)

## R12

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	1,74	4,43	6,25	7,96	14,09	21,01	36,97	47,33
	0,2	2,86	7,32	10,36	13,21	23,32	34,83	61,19	78,27
	0,4	3,87	9,99	14,22	18,17	31,91	47,78	83,71	106,91
	0,8	4,96	13,09	18,89	24,25	42,10	63,36	110,37	140,51
0° C 4 bar	0,07	1,44	3,66	5,16	6,58	11,64	17,36	30,54	39,09
	0,2	2,34	5,99	8,50	10,85	19,12	28,57	50,15	64,11
	0,4	3,10	8,06	11,53	14,76	25,82	38,73	67,72	86,39
	0,8	3,80	10,24	14,93	19,24	33,09	50,02	86,71	110,10
-10° C 2.6 bar	0,07	1,17	2,97	4,20	5,35	9,46	14,11	24,81	31,75
	0,2	1,86	4,80	6,84	8,74	15,35	22,97	40,26	51,43
	0,4	2,40	6,32	9,11	11,69	20,32	30,57	53,27	67,84
	0,8	2,73	7,61	11,31	14,66	24,81	37,79	64,97	82,12
-20° C 1.46 bar	0,07	0,93	2,37	3,35	4,27	7,54	11,26	19,78	25,30
	0,2	1,44	3,75	5,36	6,87	12,00	18,01	31,48	40,16
	0,4	1,76	4,75	6,94	8,94	15,37	23,23	40,27	51,13
	0,8	1,79	5,18	7,97	10,46	17,17	26,54	44,91	56,25
-30° C 0.63 bar	0,07	0,72	1,84	2,61	3,33	5,87	8,77	15,39	19,68
	0,2	1,06	2,81	4,06	5,21	9,04	13,62	23,71	30,18
	0,4	1,18	3,33	4,98	6,46	10,89	16,62	28,51	35,98
	0,8	1,16	3,30	5,06	6,67	10,89	16,83	28,48	35,75
-40° C 0.04 bar	0,07	0,53	1,38	1,97	2,52	4,42	6,62	11,59	14,80
	0,2	0,72	1,98	2,91	3,76	6,42	9,73	16,82	21,32
	0,4	0,72	2,05	3,19	4,22	6,79	10,60	17,74	22,21
	0,8	0,72	2,05	3,14	4,14	6,76	10,45	17,69	22,21

## R22

Evap Temp °C Evap Pres. bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	2,57	6,53	9,20	11,71	20,76	30,95	54,47	69,74
	0,2	4,27	10,88	15,37	19,59	34,65	51,70	90,91	116,34
	0,4	5,88	15,07	21,35	27,25	48,04	71,78	126,04	161,16
	0,8	7,86	20,39	29,11	37,24	65,23	97,77	171,09	218,37
0° C 4 bar	0,07	2,15	5,46	7,70	9,81	17,38	25,91	45,59	58,37
	0,2	3,55	9,06	12,82	16,34	28,87	43,10	75,74	96,90
	0,4	4,84	12,45	17,69	22,59	39,74	59,44	104,25	133,21
	0,8	6,32	16,56	23,78	30,48	53,13	79,80	139,31	177,56
-10° C 2.6 bar	0,07	1,77	4,51	6,36	8,11	14,35	21,41	37,66	48,21
	0,2	2,90	7,43	10,53	13,43	23,68	35,38	62,14	79,46
	0,4	3,89	10,08	14,38	18,39	32,24	48,30	84,56	107,96
	0,8	4,90	13,05	18,91	24,31	42,05	63,40	110,23	140,19
-20° C 1.46 bar	0,07	1,44	3,66	5,17	6,59	11,65	17,38	30,57	39,12
	0,2	2,32	5,96	8,46	10,81	19,02	28,45	49,89	63,75
	0,4	3,03	7,93	11,38	14,59	25,43	38,20	66,68	84,99
	0,8	3,58	9,80	14,43	18,65	31,81	48,27	83,35	105,59
-30° C 0.63 bar	0,07	1,14	2,91	4,11	5,24	9,26	13,83	24,30	31,09
	0,2	1,79	4,64	6,63	8,48	14,86	22,27	38,96	49,73
	0,4	2,24	5,97	8,67	11,16	19,26	29,07	50,49	64,18
	0,8	2,35	6,78	10,28	13,42	22,31	34,27	58,37	73,39
-40° C 0.04 bar	0,07	0,88	2,25	3,19	4,07	7,18	10,73	18,83	24,07
	0,2	1,32	3,47	5,00	6,42	11,16	16,78	29,26	37,26
	0,4	1,51	4,19	6,22	8,07	13,66	20,80	35,78	45,23
	0,8	1,49	4,24	6,50	8,56	13,99	21,61	36,59	45,92

Capacities are based on 40°C liquid, 5°C superheat at valve inlet, and are maximum for the conditions listed. For each 5°C liquid is below 40°C, INCREASE capacity values by 7%. (Sizing charts are also for Crankcase Pressure Regulators in sizes to 2.1/8 port only.)

**NOTE:** Due to conditions encountered with refrigeration circuits utilising hot gas for defrosting purposes, a maximum pressure drop of 0.20 bar should be used in the regulator selection process. If a pressure drop of more than 0.20 bar is considered, the regulator could become restrictive after the termination of a defrost cycle, thereby requiring an extended pull down period. The shaded areas of the suction tables designate regulator capacities above a 0.20 bar pressure drop, and should not be considered for these type of systems.

# A8, (S)PORT & SC Suction Capacities (Kilowatts)

## R134a

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 3.13 bar	0,07	2,05	5,03	7,25	9,30	16,50	24,60	43,20	55,20
	0,2	3,38	8,73	12,10	15,60	27,60	41,30	72,50	92,60
	0,35	4,31	10,90	15,70	20,20	35,80	53,50	93,80	119,90
	0,7	5,54	14,50	20,90	26,90	47,50	71,00	124,60	159,20
0° C 1.92 bar	0,07	1,65	4,07	5,87	7,56	13,40	20,00	35,00	44,80
	0,2	2,68	6,75	9,73	12,50	22,10	33,10	58,00	74,20
	0,35	3,36	8,62	12,40	16,00	28,30	42,20	74,10	94,70
	0,7	4,13	11,10	16,00	20,60	36,40	54,40	95,50	122,00
-10° C .993 bar	0,07	1,30	3,23	4,65	5,99	10,60	15,80	27,80	35,50
	0,2	2,06	5,25	7,57	9,75	17,20	25,80	45,20	57,70
	0,35	2,50	6,57	9,47	12,20	21,50	32,20	56,50	72,20
	0,7	2,88	8,08	11,60	15,00	26,50	39,60	69,50	88,80
-20° C .3149 bar	0,07	1,00	2,50	3,60	4,63	8,19	12,20	21,50	27,40
	0,2	1,52	3,94	5,68	7,31	12,90	19,30	33,90	43,30
	0,35	1,76	4,77	6,87	8,85	15,60	23,40	41,00	52,40
	0,7	1,87	5,46	7,88	10,10	17,90	26,80	47,00	60,00

## R404a

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	2,15	5,46	7,70	9,80	17,37	25,90	45,59	58,37
	0,2	3,59	9,13	12,88	16,42	29,05	43,33	76,22	97,55
	0,4	4,95	12,67	17,94	22,89	40,38	60,32	105,95	135,51
	0,8	6,67	17,25	24,58	31,43	55,15	82,59	144,66	184,72
0° C 4 bar	0,07	1,75	4,44	6,27	7,98	14,14	21,08	37,10	47,50
	0,2	2,90	7,39	10,45	13,32	23,55	35,14	61,78	79,05
	0,4	3,97	10,20	14,47	18,47	32,54	48,64	85,35	109,11
	0,8	5,25	13,69	19,60	25,09	43,86	65,80	115,01	146,70
-10° C 2.6 bar	0,07	1,40	3,56	5,02	6,39	11,32	16,88	29,70	38,03
	0,2	2,30	5,88	8,33	10,62	18,75	27,99	49,18	62,90
	0,4	3,11	8,03	11,43	14,61	25,66	38,42	67,32	85,98
	0,8	3,99	10,55	15,21	19,52	33,90	51,01	88,88	113,16
-20° C 1.46 bar	0,07	1,10	2,80	3,95	5,03	8,91	13,29	23,38	29,92
	0,2	1,79	4,58	6,50	8,30	14,62	21,86	38,36	49,03
	0,4	2,36	6,16	8,81	11,28	19,72	29,59	51,73	65,99
	0,8	2,89	7,80	11,38	14,67	25,20	38,12	66,04	83,84
-30° C 0.63 bar	0,07	0,84	2,15	3,04	3,88	6,85	10,22	17,97	22,99
	0,2	1,34	3,47	4,94	6,31	11,08	16,59	29,06	37,11
	0,4	1,71	4,54	6,55	8,41	14,58	21,96	38,24	48,67
	0,8	1,91	5,37	8,03	10,42	17,56	26,81	45,98	58,03
-40° C 0.04 bar	0,07	0,63	1,60	2,27	2,90	5,11	7,64	13,42	17,16
	0,2	0,96	2,52	3,61	4,62	8,07	12,11	21,16	26,97
	0,4	1,15	3,13	4,60	5,94	10,15	15,39	26,60	33,72
	0,8	1,14	3,24	5,07	6,70	10,81	16,85	28,25	35,19

Capacities are based on 40°C liquid, 5°C superheat at valve inlet, and are maximum for the conditions listed. For each 5°C liquid is below 40°C, INCREASE capacity values by 7%. (Sizing charts are also for Crankcase Pressure Regulators in sizes to 2-1/8 port only.)

**NOTE:** Due to conditions encountered with refrigeration circuits utilising hot gas for defrosting purposes, a maximum pressure drop of 0.20 bar should be used in the regulator selection process. If a pressure drop of more than 0.20 bar is considered, the regulator could become restrictive after the termination of a defrost cycle, thereby requiring an extended pull down period. The shaded areas of the suction tables designate regulator capacities above a 0.20 bar pressure drop, and should not be considered for these type of systems.

# A8, (S)PORT & SC Suction Capacities (Kilowatts)

## R502

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	2,06	5,24	7,38	9,40	16,65	24,82	43,70	55,95
	0,2	3,43	8,74	12,34	15,73	27,83	41,52	73,01	93,44
	0,4	4,74	12,13	17,18	21,91	38,65	57,74	101,41	129,69
	0,8	6,37	16,48	23,50	30,04	52,69	78,92	138,20	176,45
0° C 4 bar	0,07	1,70	4,32	6,10	7,76	13,75	20,51	36,09	46,21
	0,2	2,82	7,19	10,16	12,95	22,89	34,17	60,06	76,85
	0,4	3,85	9,90	14,06	17,95	31,60	47,25	82,90	105,96
	0,8	5,08	13,26	19,00	24,33	42,50	63,79	111,46	142,14
-10° C 2.6 bar	0,07	1,39	3,52	4,97	6,32	11,20	16,70	29,39	37,62
	0,2	2,27	5,81	8,23	10,50	18,53	27,68	48,62	62,18
	0,4	3,07	7,93	11,29	14,43	25,34	37,94	66,46	84,88
	0,8	3,92	10,38	14,98	19,24	33,38	50,25	87,51	111,39
-20° C 1.46 bar	0,07	1,11	2,81	3,97	5,06	8,96	13,36	23,50	30,08
	0,2	1,79	4,60	6,53	8,34	14,69	21,96	38,53	49,25
	0,4	2,37	6,18	8,84	11,32	19,78	29,68	51,88	66,17
	0,8	2,88	7,79	11,38	14,68	25,19	38,12	66,01	83,76
-30° C 0.63 bar	0,07	0,86	2,20	3,11	3,97	7,01	10,47	18,40	23,55
	0,2	1,37	3,55	5,05	6,46	11,33	16,97	29,73	37,96
	0,4	1,75	4,63	6,69	8,59	14,89	22,43	39,04	49,69
	0,8	1,93	5,46	8,16	10,61	17,85	27,27	46,73	58,95
-40° C 0.04 bar	0,07	0,66	1,68	2,38	3,04	5,36	8,00	14,05	17,97
	0,2	1,01	2,63	3,78	4,84	8,44	12,67	22,13	28,21
	0,4	1,20	3,27	4,80	6,21	10,60	16,08	27,78	35,21
	0,8	1,19	3,38	5,28	6,98	11,23	17,52	29,35	36,67

## R407c

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	2,42	6,14	8,66	11,03	19,54	29,13	51,27	65,64
	0,2	4,01	10,23	14,45	18,42	32,57	48,61	85,46	109,36
	0,4	5,51	14,13	20,05	25,58	45,08	67,38	118,27	151,19
	0,8	7,32	19,04	27,23	34,85	60,97	91,43	159,90	204,02
0° C 4 bar	0,07	1,97	5,01	7,07	9,01	15,95	23,78	41,85	53,58
	0,2	3,25	8,30	11,75	14,98	26,45	39,49	69,39	88,76
	0,4	4,41	11,36	16,16	20,65	36,28	54,30	95,17	121,58
	0,8	5,69	14,99	21,58	27,68	48,14	72,40	126,23	160,79
-10° C 2.6 bar	0,07	1,58	4,03	5,68	7,24	12,81	19,11	33,62	43,04
	0,2	2,58	6,61	9,37	11,96	21,07	31,49	55,27	70,66
	0,4	3,42	8,90	12,73	16,29	28,50	42,74	74,75	95,38
	0,8	4,22	11,35	16,53	21,29	36,66	55,38	96,07	122,03
-20° C 1.46 bar	0,07	1,24	3,17	4,48	5,71	10,10	15,07	26,50	33,90
	0,2	1,99	5,12	7,30	9,32	16,37	24,51	42,95	54,86
	0,4	2,55	6,73	9,71	12,46	21,64	32,56	56,74	72,25
	0,8	2,88	8,07	12,01	15,58	26,33	40,12	68,94	87,11
-30° C 0.63 bar	0,07	0,95	2,44	3,45	4,40	7,77	11,61	20,39	26,08
	0,2	1,47	3,84	5,50	7,05	12,31	18,47	32,27	41,16
	0,4	1,77	4,82	7,05	9,10	15,60	23,62	40,87	51,84
	0,8	1,78	5,08	7,92	10,43	16,95	26,32	44,31	55,32
-40° C 0.04 bar	0,07	0,71	1,81	2,58	3,29	5,79	8,66	15,19	19,41
	0,2	1,02	2,72	3,95	5,08	8,78	13,24	23,01	29,25
	0,4	1,07	3,11	4,70	6,14	10,21	15,68	26,73	33,62
	0,8	1,07	3,05	4,68	6,17	10,08	15,57	26,36	33,09

Capacities are based on 40°C liquid, 5°C superheat at valve inlet, and are maximum for the conditions listed. For each 5°C liquid is below 40°C, INCREASE capacity values by 7%. (Sizing charts are also for Crankcase Pressure Regulators in sizes to 2.1/8 port only.)

**NOTE:** Due to conditions encountered with refrigeration circuits utilising hot gas for defrosting purposes, a maximum pressure drop of 0.20 bar should be used in the regulator selection process. If a pressure drop of more than 0.20 bar is considered, the regulator could become restrictive after the termination of a defrost cycle, thereby requiring an extended pull down period. The shaded areas of the suction tables designate regulator capacities above a 0.20 bar pressure drop, and should not be considered for these type of systems.

# A8, (S)PORT & SC Suction Capacities (Kilowatts)

## R410a

Evap Temp °C Evap Pres. Bar	Pres Drop bar	03 3/8" 9 mm	05 5/8" 15 mm	07 7/8" 22 mm	09 1-1/8" 28 mm	11 1-3/8" 35 mm	13 1-5/8" 42 mm	17 2-1/8" 54 mm	21 2-5/8" 66 mm
10° C 5.8 bar	0,07	3,14	7,96	11,22	14,28	25,32	37,74	66,44	85,08
	0,2	5,25	13,34	18,82	23,98	42,45	63,31	111,39	142,59
	0,4	7,29	18,61	26,32	33,55	59,28	88,49	155,54	199,00
	0,8	9,95	25,60	36,36	46,43	81,71	122,19	214,34	273,92
0° C 4 bar	0,07	2,63	6,67	9,40	11,96	21,20	31,60	55,63	71,24
	0,2	4,37	11,14	15,72	20,03	35,45	52,88	93,01	119,03
	0,4	6,04	15,46	21,89	27,93	49,28	73,61	129,29	165,35
	0,8	8,14	21,05	29,99	38,34	67,29	100,76	176,49	225,37
-10° C 2.6 bar	0,07	2,17	5,51	7,77	9,90	17,54	26,14	46,01	58,91
	0,2	3,59	9,17	12,96	16,52	29,20	43,57	76,60	98,01
	0,4	4,92	12,64	17,94	22,90	40,32	60,28	105,77	135,20
	0,8	6,49	16,94	24,26	31,07	54,28	81,45	142,35	181,55
-20° C 1.46 bar	0,07	1,77	4,49	6,34	8,07	14,30	21,32	37,52	48,03
	0,2	2,90	7,42	10,51	13,40	23,65	35,33	62,06	79,37
	0,4	3,91	10,12	14,41	18,42	32,33	48,41	84,81	108,31
	0,8	5,00	13,23	19,11	24,54	42,56	64,09	111,59	142,04
-30° C 0.63 bar	0,07	1,42	3,60	5,09	6,48	11,46	17,10	30,08	38,50
	0,2	2,29	5,88	8,35	10,67	18,78	28,08	49,26	62,96
	0,4	3,02	7,88	11,29	14,46	25,25	37,89	66,21	84,43
	0,8	3,64	9,89	14,47	18,68	32,01	48,46	83,86	106,38
-40° C 0.04 bar	0,07	1,11	2,83	4,00	5,10	9,01	13,45	23,64	30,24
	0,2	1,75	4,54	6,47	8,28	14,51	21,74	38,07	48,60
	0,4	2,22	5,89	8,53	10,96	18,97	28,59	49,73	63,26
	0,8	2,39	6,84	10,29	13,40	22,43	34,35	58,72	73,99

Capacities are based on 40°C liquid, 5°C superheat at valve inlet, and are maximum for the conditions listed. For each 5°C liquid is below 40°C, INCREASE capacity values by 7%. (Sizing charts are also for Crankcase Pressure Regulators in sizes to 2.1/8 port only.

**NOTE:** Due to conditions encountered with refrigeration circuits utilising hot gas for defrosting purposes, a maximum pressure drop of 0.20 bar should be used in the regulator selection process. If a pressure drop of more than 0.20 bar is considered, the regulator could become restrictive after the termination of a defrost cycle, thereby requiring an extended pull down period. The shaded areas of the suction tables designate regulator capacities above a 0.20 bar pressure drop, and should not be considered for these type of systems.