

Intelligent Air Technology



Compressed air solutions for every application

Downstream Equipment Technical Data

Compressors

0.1 - 43m³/min
0.75 - 260kW

Lubricated

Rotary Vane
Single Stage Screw
Speed Regulated Screw
Piston
Portable

Oil-Free

Two Stage Screw
Water-Sealed Screw
Piston
Portable

Complete Accessories Programme

Filters and Dryers
Cooling Systems
Heat Recovery
Condensate Management
Air Receivers
Multi-Set Controllers
Lubricants

Value Added Services

Air Audit
Performance Reporting
Utility Air
Performance Contracting

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Engineering of Complete Compressor Stations
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Guaranteed Parts Availability



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09/2002



Intelligent Air Technology





A Series Heatless Dryers

S Models Heatless

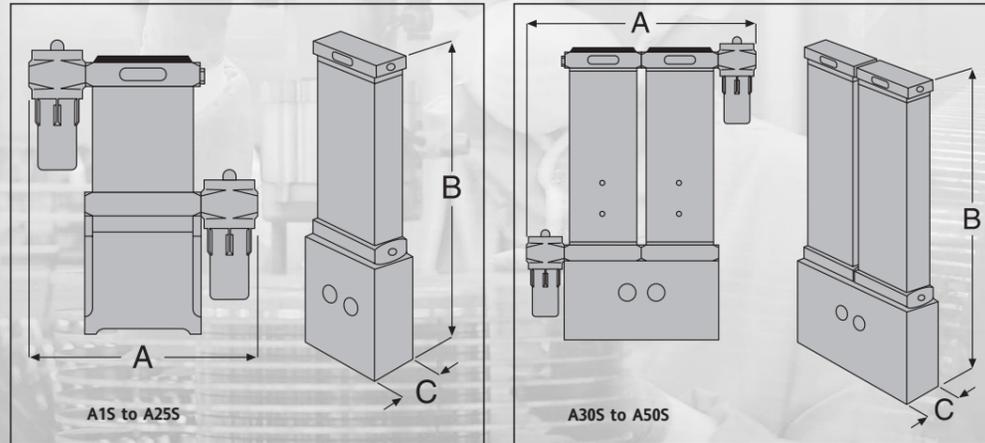
Flow Range:	0.08m ³ /min (3 cfm) to 4.98m ³ /min (176 cfm)	Pipe Connections:	G1/4 to G3/4
Pressure Dewpoint:	-40°C (-40°F) Nominal -70°C (-100°F) Optional (If -70°C pdp option required, contact CompAir)	Minimum Inlet Temperature:	5°C (41°F)
Minimum Working Pressure:	4 bar g (58 psi g)	Maximum Inlet Temperature:	50°C (122°F)
Maximum Working Pressure:	10.5 bar g (152 psi g)	Note: S Models are supplied electrically operated as standard. Fully pneumatic versions are available on request	
Voltages: Heatless: 220 - 240V/1ph/50Hz 110 - 115V/1ph/60Hz		Other voltages and frequencies are available on request	

All dryers conform to ISO 8573.1 Air Quality Class (Dirt/Water/Oil) 1.1.1 and 1.2.1

Model	A1S	A2S	A4S	A7S	A9S	A12S	A15S	A18S	A25S	A30S	A37S	A50S
Capacity at stated air inlet temperature	m ³ /min											
	cfm											
Dewpoint	°C											
Air Connections	G											
Minimum working pressure	bar											
Maximum working pressure	bar											
Max air inlet temperature	°C											
Inlet Filter	CF0005 C	CF0005 C	CF0005 C	CF0018 C	CF0018 C	CF0018 C	CF0018 C	CF0036 C	CF0037 C	CF0037 C	CF0072 C	CF0072 C
Outlet Filter	CF0005 E	CF0005 E	CF0005 E	CF0018 E	CF0018 E	CF0018 E	CF0018 E	CF0036 E	CF0037 E	CF0037 E	CF0072 E	CF0072 E
Fixing Kit (1 per filter)	CFA10	CFA10	CFA10	CFA10	CFA10	CFA10	CFA10	CFA11	CFA11	CFA11	CFA11	CFA11

Dryers supplied complete with Inlet and Outlet Filter and Fixing Kits.

IMPORTANT NOTE:
Size the dryer against the minimum dryer inlet pressure or, if not known, 1 bar below the compressor minimum working pressure.



Model	A1S	A2S	A4S	A7S	A9S	A12S	A15S	A18S	A25S	A30S	A37S	A50S
Dimensions	mm											
	Width (A)											
	Height (B)											
Weight	kg											
	Depth (C)											

Pressure Correction Table

Minimum Pressure to Inlet of Dryer	bar g	4	5	6	7	8	9	10
	psi g	58	73	87	102	116	131	145
Correction Factor (CFP)		0.63	0.75	0.88	1.0	1.13	1.25	1.38

TX Models

Flow Range @ 7 bar g:	2.18m ³ /min (77 cfm) to 93.19m ³ /min (3293 cfm)	Maximum Operating Pressure:	A22TX-A140TX 16 bar g (232 psi g) A190TX-A930TX 10 bar g (145 psi g)
Pressure Dewpoint:	-40°C (-40°F) Nominal -25°C (-13°F) Optional -70°C (-100°F) Optional	Minimum Operating Pressure:	4 bar g (58 psi g)
Air Quality Class:	ISO 8573.1 Class 1.2.1. Nominal ISO 8573.1 Class 1.3.1. Optional ISO 8573.1 Class 1.1.1. Optional	Maximum Inlet Temperature:	50°C (122°F)
		Minimum Inlet Temperature:	5°C (41°F)
		Controls:	Electronic or Pneumatic
		Standard Electrical Supply:	230V/1Ph/50Hz - 60Hz

Model	Flow Rate @ 7 bar g (102 psi g)		Dimensions mm			Weight kg	Inlet Filter	Outlet Filter	Conn. Size	Weight Kg
	m ³ /min	cfm	A	B	C					
A22TX	2.18	77	566	1767	440	121	CF 0048C	CF 0048E	G1	127
A28TX	2.83	100	592	1747	440	142	CF 0048C	CF 0048E	G1	148
A38TX	3.82	135	634	1824	460	161	CF 0048C	CF 0048E	G1	182
A50TX	4.98	176	660	1844	460	200	CF 0048C	CF 0048E	G1	206
A60TX	6.08	215	823	1881	540	280	CF 0120C	CF 0120E	G1 1/2	300
A87TX	8.66	306	874	1901	540	365	CF 0120C	CF 0120E	G1 1/2	385
A120TX	11.66	412	930	2016	510	465	CF 0120C	CF 0120E	G1 1/2	485
A140TX	14.15	500	981	2015	510	560	CF 0198C	CF 0198E	G2	586
A190TX	19.13	676	1060	2070	840	640	CF 0198CF	CF 0198EF	DN50	720
A250TX	24.96	882	1270	2110	900	765	CF 0372CF	CF 0372EF	DN80	900
A320TX	32.46	1147	1350	2150	990	955	CF 0372CF	CF 0372EF	DN80	1100
A390TX	39.11	1382	1530	2210	1040	1095	CF 0600CF	CF 0600EF	DN100	1300
A490TX	49.24	1740	1600	2230	1100	1285	CF 0600CF	CF 0600EF	DN100	1490
A630TX	63.22	2234	1875	2340	1200	1590	CF 0780CF	CF 0780EF	DN100	1880
A770TX	76.55	2705	1910	2640	1250	1950	CF 0780CF	CF 0780EF	DN100	2240
A930TX	93.19	3293	2160	2815	1150	2700	CF 1170CF	CF 1170EF	DN150	3090

*Referenced to 20 °C (68 °F) and 1 bar a (14.5 psi a)**Please specify connection size A22TX-A630TX CE Marked. A770-A930TX TUV or other approval.

Correct Dryer Selection

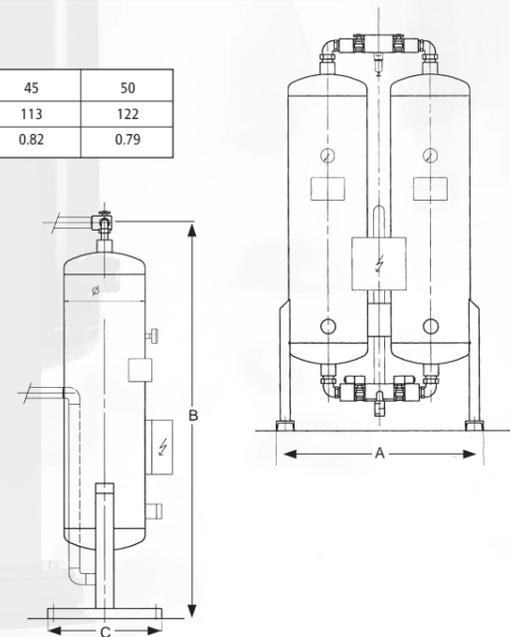
- Select your correction factor for minimum pressure (CFP) to inlet of dryer (Allow for system pressure losses when determining minimum operating pressure).

Minimum Pressure to Inlet of Dryer	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	102	116	131	145	160	174	189	203	218	232
Correction Factor (CFP)		0.63	0.75	0.88	1.0	1.08	1.26	1.36	1.5	1.62	1.71	1.79	1.97	2.14

- Select your correction factor for maximum temperature (CFT) to inlet of dryer.

Maximum Temperature to Inlet of Dryer	°C	25	35	40	45	50
	°F	77	95	104	113	122
Heatless ATX Dryers (CFT)		1.0	1.0	0.91	0.82	0.79

- Calculate dryer capacity required following the equation below.
Inlet flow requirement = Dryer capacity requirements CFP x CFT.





A Series Dryers

TV Models (Twin Tower Vacuum Purge)

Pressure Dewpoint:	-40°C (-40°F) Nominal -25°C (-13°F) Optional -70°C (-100°F) Optional	Maximum Operating Pressure:	10 bar g (145 psi g) Standard 16 bar g (232 psi g) Optional
Air Quality Class:	ISO 8573.1 Class 1.2.1. Nominal ISO 8573.1 Class 1.3.1 Optional ISO 8573.1 Class 1.1.1. Optional	Minimum Operating Pressure:	4 bar g (73 psi g)
		Maximum Inlet Temperature:	40°C (122°F)
		Minimum Inlet Temperature:	2°C (36°F)
		Controls:	Microprocessor or PLC
		Standard Electrical Supply:	400V/3Ph/50Hz

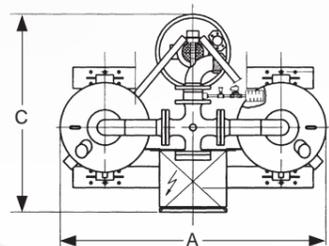
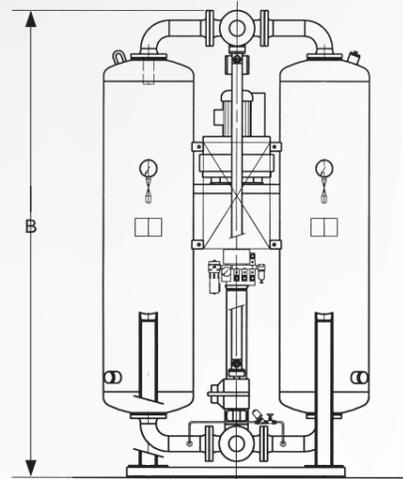
Model	Flow Rate @ 7 bar g		Dimensions mm			Inlet Filter	Outlet Filter	Air Connection	Weight kg	Average Power kW/h @ Dewpoint	
	m ³ /min	cfm	A	B	C					-25°C	-40°C
A70TV	7.0	247	1215	1955	985	CF 0120CF	CF 0120EF	DN 40	460	3.1	3.4
A85TV	8.5	300	1215	2205	985	CF 0120CF	CF 0120EF	DN 40	560	3.8	4.1
A107TV	10.7	377	1305	2250	1085	CF 0198CF	CF 0198EF	DN 50	640	5.2	5.5
A142TV	14.2	500	1360	2275	1095	CF 0198CF	CF 0198EF	DN 50	770	6.7	7.2
A197TV	19.7	695	1560	2665	1295	CF 0372CF	CF 0372EF	DN 80	940	10.9	11.8
A250TTV	25.0	883	1610	2680	1285	CF 0372CF	CF 0372EF	DN 80	1200	12.8	13.0
A330TV	33.0	1165	1700	2730	1390	CF 0372CF	CF 0372EF	DN 80	1580	16.3	17.5
A392TV	39.2	1383	2020	2845	1415	CF 0600CF	CF 0600EF	DN 100	1880	18.1	19.5
A488TV	48.8	1725	2085	2870	1515	CF 0600CF	CF 0600EF	DN 100	2350	22.5	24.2
A592TV	59.2	2089	2170	2950	1630	CF 0600CF	CF 0600EF	DN 100	2850	27.9	29.3
A683TV	68.3	2413	2450	3190	1630	CF 1170CF	CF 1170EF	DN 150	3300	32.5	34.2
A790TV	79.0	2790	2515	3210	1835	CF 1170CF	CF 1170EF	DN 150	3800	38.9	40.2
A875TV	87.5	3090	2550	3230	1770	CF 1170CF	CF 1170EF	DN 150	4200	44.8	45.2
A1035TV	103.5	3655	2600	3500	1885	CF 1170CF	CF 1170EF	DN 150	4950	52.3	53.2
A1183TV	118.3	4179	2650	3520	1905	CF 1170CF	CF 1170EF	DN 150	5700	56.3	57.0
A1333TV	133.3	4709	3210	3585	2115	CF 1950CF	CF 1950EF	DN 200	6400	67.2	67.8
A1533TV	153.3	5415	3150	3615	2240	CF 1950CF	CF 1950EF	DN 200	7400	75.6	76.8
A1800TV	180.0	6357	3250	3670	2290	CF 1950CF	CF 1950EF	DN 200	8700	85.3	87.9
A2050TV	205.0	7240	3500	3860	2480	CF 3120CF	CF 3120EF	DN 250	11500	98.9	105.0
A2417TV	241.7	8534	3600	3900	2530	CF 3120CF	CF 3120EF	DN 250	13500	111.4	119.9

*Referenced to 20°C (68°F) and 1 bar a (14.5 psi a)

Correct Dryer Selection

- Select your correction factor for minimum pressure to inlet of dryer (Allow for system pressure losses when determining minimum operating pressure).

Inlet Pressure	bar g	4	5	6	7	8	9	10
Inlet Temperature	30°C	0.69	0.80	0.90	1.02	1.06	1.17	1.29
	35°C	0.44	0.62	0.80	1.00	1.05	1.16	1.28
	40°C	0.28	0.42	0.59	0.70	0.79	0.88	0.96



X & R Models (Heatless and Heat Regenerative)

Flow Range:	4.53m ³ /min (160 cfm) and upwards	Pipe Connections:	G2 to G2 1/2
Pressure Dewpoint:	-40°C (-40°F) Nominal -70°C (-100°F) Optional	Minimum Inlet Temperature:	5°C (41°F)
(If -70°C pdp option required, contact CompAir)		Maximum Inlet Temperature:	50°C (122°F)
Minimum Working Pressure:	4 bar g (58 psi g)	Note: All CompAir dryers are supplied electrically operated as standard. Fully pneumatic versions are available on request (except R heat regenerative models).	
Maximum Working Pressure:	10.5 bar g (152 psi g)		

Inlet/Outlet Filtration (per dryer bank)

Models	Inlet Filter(s)	Outlet Filter
A45X - A110X	CF0132C	CF0132E
A40R - A80R	CF0132C	CF0132ETS
A140X - A900X	CF0240C	CF0240E
A120R - A790R	CF0240C	CF0240ETS

Voltages

Heatless:	220 - 240V/1ph/50Hz 110 - 115V/1ph/60Hz
Heat Regenerative:	380 - 415/3ph/50Hz 415/3ph/60Hz + Neutral
Other voltages and frequencies are available on request	

Electrical Specifications (R heat regenerative models operating at 7 bar g and 35°C inlet temperature)

Model	Full load Amps	Power Consumption kW H Average
A40R	7.2	1.1
A80R	14.4	2.2
A120R	21.6	3.3
A160R	28.8	4.4
A190R	36.0	5.5

X Models (Heatless)

Model	A45X	A70X	A90X	A110X	A140X	A160X	A180X	A230X	A270X	A320X	A360X	A450X	A540X	A680X	A720X	A900X		
Capacity at stated air inlet temperature	m ³ /min up to 35°C	4.53	6.79	9.06	11.32	13.58	15.85	18.11	22.64	27.17	31.70	36.22	45.28	54.34	67.92	72.45	90.56	
	cfm up to 35°C	160	240	320	400	480	560	640	800	960	1119	1279	1599	1919	2399	2559	3198	
Dewpoint	°C	-40																
Air Connections	G	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	
Dimensions	mm	width	240															
		height	1630															
Weight	kg	depth	692	798	905	1011	1118	1224	1311	1544	1118	1224	1311	1544	1311	1544	1311	1544
		depth	135	180	220	250	295	345	400	520	590	690	800	1040	1200	1560	1600	2080
Minimum working pressure	bar	4																
Maximum working pressure	bar	10.5																
Max air inlet temperature	°C	50																

R Models (Heat Regenerative)

Model	A40R	A80R	A120R	A160R	A190R	A240R	A320R	A390R	A480R	A590R	A630R	A790R			
Capacity at stated air inlet temperature	m ³ /min up to 35°C	3.96	7.92	11.89	15.85	19.81	23.77	31.70	39.62	47.54	59.43	63.39	79.24		
	cfm up to 35°C	140	280	420	560	700	839	1119	1399	1679	2099	2239	2798		
Dewpoint	°C	-40													
Nominal power absorbed	kW	1.1	2.2	3.3	4.4	5.5	6.6	8.8	11	13.2	16.2	17.6	22		
Air Connections	G	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2		
Dimensions	mm	width	321										821	1321	1821
		height	1630												
Weight	kg	depth	717	947	1177	1407	1637	1177	1407	1637	1407	1637	1407	1637	
		depth	150	245	325	440	565	650	880	1130	1320	1695	1760	2260	
Minimum working pressure	bar	4													
Maximum working pressure	bar	10.5													
Max air inlet temperature	°C	50													

Maximum Temperature to Inlet of Dryer	°C	25	35	40	45	50
	°F	77	95	104	113	122
X Model	CFT	1.0	1.0	0.97	0.88	0.73
	CFT	1.1	1.0	0.76	0.58	0.45

Pressure Correction Table

Minimum Pressure to Inlet of Dryer	bar g	4	5	6	7	8	9	10
	psi g	58	73	87	102	116	131	145
Correction Factor (CFP)		0.63	0.75	0.88	1.0	1.13	1.25	1.38