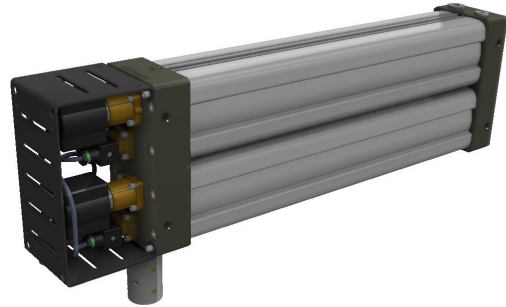




WR2A-4GT, WR3A-6GT, WR4A-8GT, WR5A-BGT Pressure Swing AMT Rail Dryers

- > Port size: G1/2, G3/4, G1 & G1 1/2
- > High efficiency Adsorbent Media Tube (AMT) air dryer providing variable pressure dew point suppression
- > Suitable for flow rates up to 6000l/min (212 scfm)
- > Fully recovers from water saturation
- > Full environmental validation to EN 50155
- > Performance unaffected by shock, vibration or orientation
- > Shock and Vibration tested to EN 61373:2010 Category 1, Class B
- > No post dryer dust filtration required
- > Available with heaters for cold start up applications



Technical features

Medium:

Compressed air

Operation:

Pressure swing adsorption

Operating pressure:

4 ... 12 bar (58 ... 175 psi)

Flow:

See table below

Port size:

G1/2, G3/4, G1 & G1 1/2

Particle removal:

None

Purge air:

See table below

Ambient/Media temperature:

-40 ... +80°C (+40 ... +176°F)

Servicing:

Long service life - up to 30000 hours.
(10 year service intervals)*5

Materials:

Manifolds: Aluminium Alloy
Barrels: Aluminium alloy
Adsorbent Material:
Adsorbent Media Tube (AMT)
Polymer (internal components):
Flame Retardant PA66
Elastomers (Seals): NBR


Electrical details for solenoid operators

Voltage	24 V d.c. (8 W exhaust valve, 22 W inlet valve)
Voltage tolerance	± 10%, wider tolerance on request
Rating	100% continuous duty
Electrical connection with rockguard version AA, AB	6 pin connector plug, Derivate from MIL-DTL-5015 standard (*4)
Electrical connection without rockguard - version BB	EN 175301-803 - Form A, 30 mm
Protection class	IP 65 (with sealed plug)

Electrical details for optional heaters

Voltages	24, 37.5, 72, 110, 220 V a.c. / V d.c.
Voltage tolerance	± 30%
Electrical connection with rockguard version AA, AB	3 pin connector plug, Derivate from MIL Specification (*4)
Electrical connection without rockguard - version BB	Series WR2: 3x3 core flying leads Series WR3, WR4 and WR5: 4x3 core flying leads
Protection class	IP 65

Technical data - standard models

Symbol	Inlet/ Outlet port size	Inlet flow rate *2)		Purge flow rate *1) *2)		Dew point suppression *1)		Outlet RH *1)	Weight *3)		Model
		(l/min)	(scfm)	(l/min)	(scfm)	(°C)	(°F)		(kg)	(lbs)	
	G1/2	550	19.4	110	3.9	> 40	> 72	<10	16	35	WR2A-4GT-D2C- ★ ★ ★ ★
	G1/2	1000	35.3	200	7.1	> 40	> 72	<10	19	42	WR2A-4GT-C2E- ★ ★ ★ ★
	G1/2	1450	51.2	290	10.2	> 40	> 72	<10	22	49	WR2A-4GT-H2F- ★ ★ ★ ★
	G3/4	750	26.5	150	5.3	> 40	> 72	<10	28	62	WR3A-6GT-A2C- ★ ★ ★ ★
	G3/4	1350	47.7	270	9.5	> 40	> 72	<10	32	71	WR3A-6GT-H2E- ★ ★ ★ ★
	G3/4	1800	63.6	360	12.7	> 40	> 72	<10	36	79	WR3A-6GT-G2F- ★ ★ ★ ★
	G1	875	30.9	175	6.2	> 40	> 72	<10	34	75	WR4A-8GT-B2C- ★ ★ ★ ★
	G1	2000	70.6	400	14.1	> 40	> 72	<10	38	84	WR4A-8GT-E2E- ★ ★ ★ ★
	G1	3000	105.9	600	21.2	> 40	> 72	<10	42	93	WR4A-8GT-J2F- ★ ★ ★ ★
	G1 1/2	4500	158.9	990	35	> 40	> 72	<10	48	106	WR5A-BGT-L2E- ★ ★ ★ ★
	G1 1/2	6000	211.9	1500	53	> 40	> 72	<10	57	126	WR5A-BGT-M2F- ★ ★ ★ ★

*1) Typical performance figures at rated inlet conditions of 35°C, 90% RH @8 barg

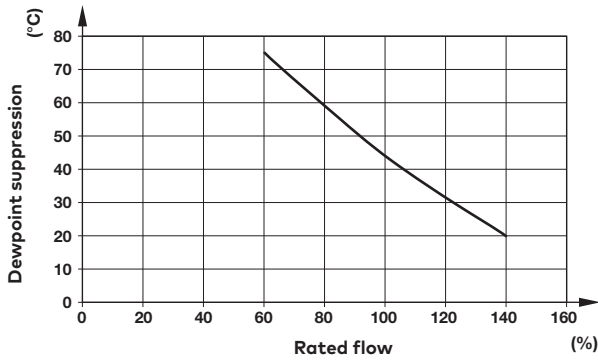
*2) Inlet and purge flow rates stated to produce 40°C dew point suppression, other performance available upon request.

*3) Weight may vary +/- 1 kg depending on options selected.

*4) Connector plug required

*5) Providing required filter maintenance is followed

Typical performance characteristics:



For further data please consult IMI Precision Technical Department


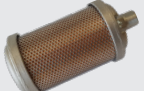

Option selector

WR#A-#GT-###-★★★★

Heater voltage	Substitute
No heaters	0
24	1
37.5	2
72	4
110	6
220	7
Wiring harness and rock guard configuration	Substitute
Harness and rock guard with side guards	AA
Harness and rock guard without side guards	AB
No harness and rock guard	BB

IMI Precision branding	Substitute
Yes	Y
No	N

Accessories

Connector plug	Silencer
	
	
For all series	Silencer for Series
WROS-060 - 6 pin Solenoid connector plug	WR2 WROS-065 (R1/2)
WROS-061 - 3 pin Heater connector plug	WR3 WROS-066 (R3/4)
	WR4 & WR5 WROS-067(R1¼)

Dimensions in mm
Projection/First angle

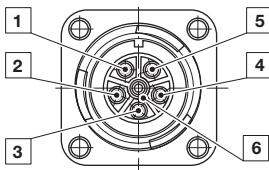


Note:

Male to female elbow adaptors are need to connect silencers!

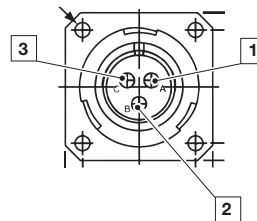
Electrical connector

Valve connector



- 1 Pin A – 24 V d.c. (Lower purge valve)
- 2 Pin B – 24 V d.c. (Lower flow valve)
- 3 Pin C – 24 V d.c. (Upper purge valve)
- 4 Pin D – 24 V d.c. (Upper flow valve)
- 5 Pin E – Common OV
- 6 Pin F – Earth (Common earth)

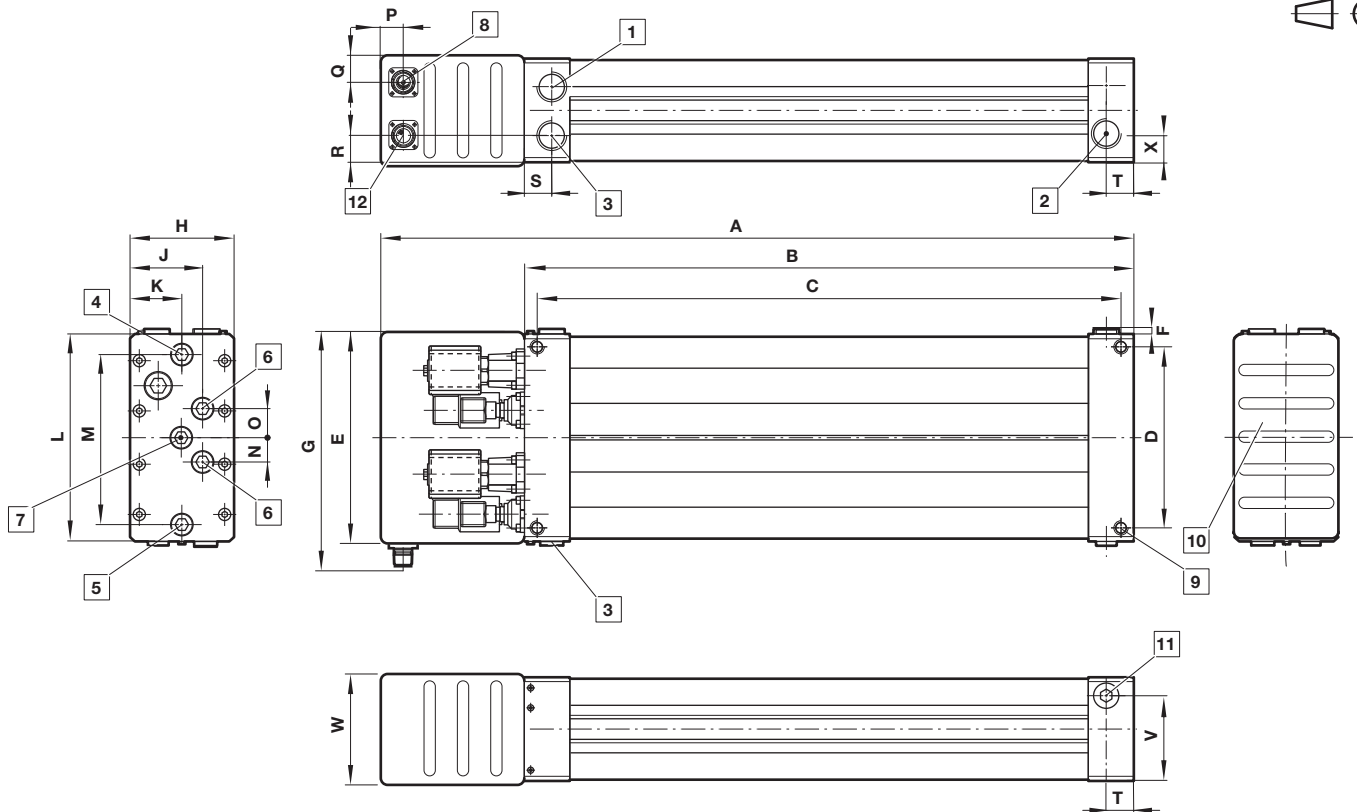
Heater connector



- 1 Pin A – Live
- 2 Pin B – OV
- 3 Pin C – Earth

Dimensions

Dimensions in mm
Projection/First angle



- 1 Inlet port
- 2 Outlet port
- 3 Exhaust port Ø 80 mm: G3/4; Ø 100 mm: G3/4; Ø 125 mm: G1; Ø 150 mm: G1/2
- 4 G1/4 port to allow monitoring of pressure in top barrel
- 5 G1/4 port to allow monitoring of pressure in bottom barrel
- 6 G1/4 port on outlet to allow fitting of test point sensor
- 7 **Series WR5 only:** G1/2 port on outlet to allow fitting of humidity sensor
- 8 Electrical connector (valve control)
- 9 Mounting threads
 Ø 80 mm: M10 x 1,5, thread 16 mm deep
 Ø 100 mm: M12 x 1,75, thread 18 mm deep
 Ø 125 mm: M12 x 1,75, thread 20 mm deep
 Ø 150 mm: M12 x 1,75, thread 30 mm deep
- 10 Standard guard, side guard optional
- 11 Alternative outlet port (plugged)
- 12 Electrical connector (heater control)

System	A *1)	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	W	X	Port size	Model
Ø 80	633/593	470	380	126	234	5	260	100	72	50	220	166	29	29	26	29	26	25	33	74	100	28	G1/2	WR2A-4GT-★2C-★★★★
Ø 80	833/793	670	580	126	234	5	260	100	72	50	220	166	29	29	26	29	26	25	33	74	100	28	G1/2	WR2A-4GT-★2E-★★★★
Ø 80	1033/993	870	780	126	234	5	260	100	72	50	220	166	29	29	26	29	26	25	33	74	100	28	G1/2	WR2A-4GT-★2F-★★★★
Ø 100	656/629	505	474	152	240	6	267	120	89	49	240	178	31	31	24	101	31	28	31	89	120	31	G3/4	WR3A-6GT-★2C-★★★★
Ø 100	856/829	705	674	152	240	6	267	120	89	49	240	178	31	31	24	101	31	28	31	89	120	31	G3/4	WR3A-6GT-★2E-★★★★
Ø 100	1056/1029	905	874	152	240	6	267	120	89	49	240	178	31	31	24	101	31	28	31	89	120	31	G3/4	WR3A-6GT-★2F-★★★★
Ø 125	700/669	544	452	185	280	7	308	145	110	70	280	210	50	50	25	19	42	26	28	101	145	44	G1	WR4A-8GT-★2C-★★★★
Ø 125	900/869	744	652	185	280	7	308	145	110	70	280	210	50	50	25	19	42	26	28	101	145	44	G1	WR4A-8GT-★2E-★★★★
Ø 125	1100/1069	944	852	185	280	7	308	145	110	70	280	210	50	50	25	19	42	26	28	101	145	44	G1	WR4A-8GT-★2F-★★★★
Ø 150	944/915	786	670	210	291	10	350	170	115	85	335	238	75	75	22	49	49	43	40	115	170	55	G1/2	WR5A-BGT-X2E-★★★★
Ø 150	1144/1115	986	870	210	291	10	350	170	115	85	335	238	75	75	22	49	49	43	40	115	170	55	G1/2	WR5A-BGT-X2F-★★★★

*1) Overall length with/without rock guard

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.