





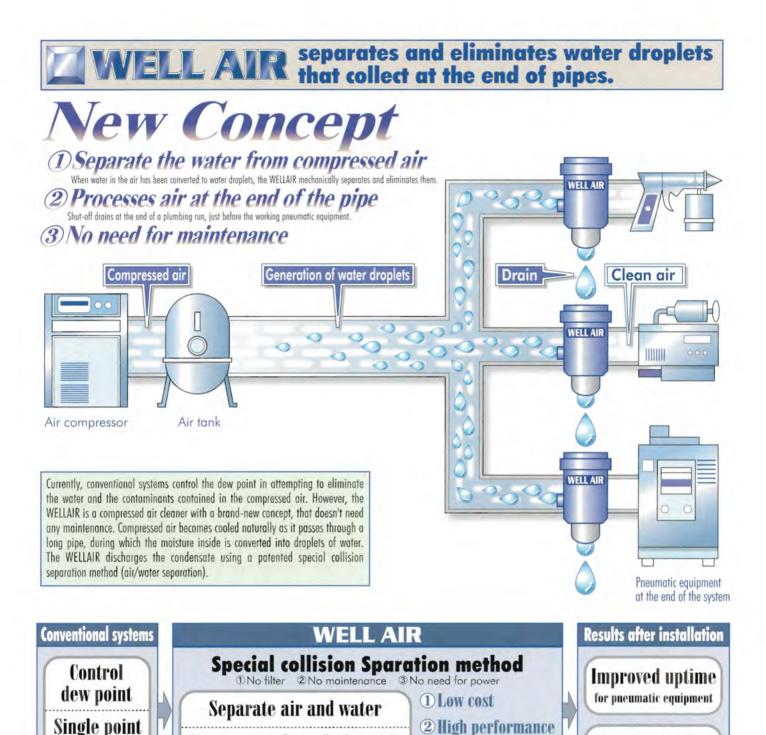
No filter No freon Maintenance-free Moisture removal rate: 99.99% No need for a power supply

Compressed Air Cleaner



Patented : Approved by the small and medium-sized business creation promotion law

BINTED WITH



What is the patented special collision separation method?

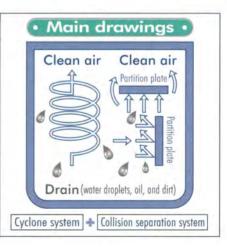
control

Air processed just before use

■ WELL AIR's special collision separation method is a brand-new technology that provides a constant supply of clean air to pneumatic equipment. By taking advantage of the difference in specific gravity between air and contaminants (water droplets, oil, dirt, etc.), the WELLAIR separator uses collision and centrifugal force techniques to continually eliminate 99.99% of any moisture, just by its design.

The system does not need any consumable elements, such as filters or drying agents, nor does it need electric power or refrigerants. Since it continually separates and eliminates contaminants by itself, it needs no maintenance. So there are no operating costs.

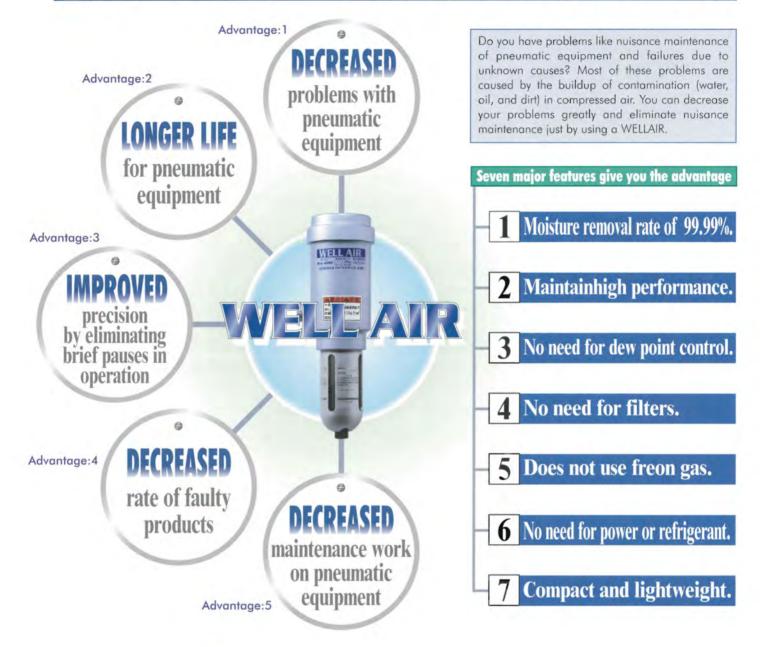
Since there is no deterioration in performance, such as happens as a filter becomes clogged, it provides a constant level of high performance.



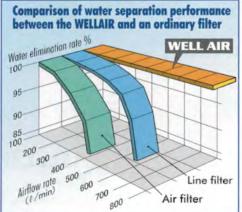
Decreased costs

3 Compact and light weight

WELL AIR brings you the following advantages.



WELL AIR = Continuous high performance.



Moisture removai test

Aggregat	e flow rate	50 <i>ℓ</i> /min	100 <i>C</i> /min	200 <i>€</i> /min	300 <i>€</i> /min	400 <i>e</i> /min	600 <i>€</i> /min	800 <i>e</i> /min	1000 <i>C</i> /min	1200 <i>C</i> /mi
	3 Kgf/cm ²	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Pressure	5 Kgf/cm ²	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
	7 Kgf/cm ²	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%

The water removal tests were carried out by injecting 30 cc of solution, consisting of water and ink, into the WELLAIR inlet at a speed of 30 cc per second.

Reference Results of an inspection for general bacillus in a compressor's drain

Specimen to be inspected	Inspection item	Inspection result
Drain water in compressor	Number of bacteria	22,000/ml
Water after buffing the air passing through the WELLAIR for 1.5 hours.	Number of bacteria (bacteria in air)	4/ml (Cultured for 48 hours)

The inspection method conforms to the test method for city water (Supervised by the Life Sanitation Bureau of the Ministry of Welfare).

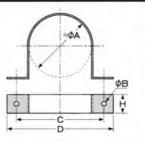
Inspected by the Japan Environmental Sanitation Center

A WELLAIR introduction CD-ROM and actual demonstration machines are available to give you a clearer picture of its performance.

Options

Mounting bracket





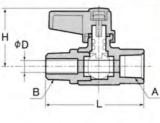
	ØA	В	С	D	Ĥ
For the WA-150	65	Ø5	83	105	15
For the WA-400	81	Ø5	116	136	24
For the WA-1200	135	Ø11	173	205	32

Material: Chrome plated SS41

Unit: mm

Ball valve : M6





Item name	Nominal diameter	A	В	L	H	ØD
M6-0606	1⁄8×6	R1/8 thread	Ø6	74.3	29	6
M6-0808	1⁄4×8	R1/4 thread	Ø8	78.3	29	6
M6-0809	1⁄4×9	R1/4 thread	Ø9	78.3	29	6
M6-1010	3⁄8×10.5	R3/8 thread	Ø10.5	82.3	29	6

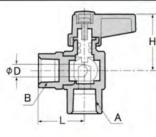
Maximum working pressure: 1.0Mpa=10kgf/cm²

Maximum working temperature: -20 to 90°C

Fluids: Cooling water, oil, and air Test pressure: 0.6Mpa air pressure=6kgf/cm²

Ball valve : ML6





Item name	Nominal diameter	A	в	L	н	ØD
ML6-0606	1/8×6	R1/8 thread	Ø6	53.8	29	6
ML6-0808	1⁄4×8	R1/4 thread	Ø8	55.8	29	6
ML6-0809	1⁄4×9	R1/4 thread	Ø9	55.8	29	6
ML6-1010	3⁄8×10.5	R3/8 thread	Ø10.5	62.3	30.5	7.5

Maximum working pressure: 1.0Mpa=10kgf/cm² Maximum working temperature: -20 to 90°C Fluids: Cooling water, oil, and air Test pressure: 0.6Mpa air pressure=6kgf/cm²

Precautions when installing the WELL AIR

- 1. Make sure to install the WELLAIR vertically.
- 2. Install the WELLAIR just before each piece of pneumatic equipment.

(Long plumbing runs from the WELLAIR to the working equipment may cause water to condense in the pipe, due to temperature differences between the compressed air and the atmosphere)

3. Make sure to check the air line inlet and outlet.

Agent:

- 4. For detailed instructions on the WELLAIR, read the Instruction Manual that comes with the WELLAIR before installing it.
- 5. Install the pressure-regulator and the lubricator directly in line after the WELLAIR.



Manufactured by: ----- 2004. 03. 01

株式会社 445772

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http://www.kamatatecnas.co.jp

WELLAR Lineup

Standard series

As of March 01, 2004 KAMATATECNAS CO., LTD.

WELL AIR

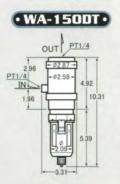
Mo	del name	WA-150	WA-400	WA-1200	WA-2500
Max	imum operating flow rate : cfm	5.30	14.13	42.38	88.29
Оре	rating pressure range : psi		14.22~	142.23	
LL AIR Gua	ranteed withstand pressure : psi		213	3.35	
Fluid	temperature : degF		41~	-149	
Drai	n exhaust section connections, diameter : Rc		1.	/4	hose nipple ϕ 6mr
Air	lumbing connections, diameter : Rc	1/4	3/8	3/4	1
Weig	ght : lb	1.63	2.73	6.46	26.46
OUT	58+ 4.92 PT3/8		PT3/4		
	87- 58- 9,41 1.97 - \$2,54 - \$3,15- 6,89 11,3 - \$2,50- 11,3 - \$2,50- 11,3 - \$2,50- 11,5- - \$2,50- - \$1,5- - \$2,50- - \$1,5- - \$2,50- - \$1,5- - \$2,50- - \$1,5- - \$2,50- - \$1,5- - \$1	8.46	-ø5.12	15.63	P5.98 20.4

* Standard compressed air purifier models. Auto drain type.

DT series

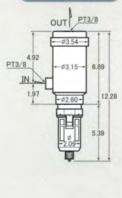
AWB -

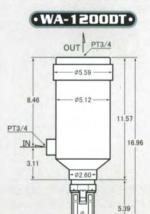
Model name	WA-150DT	WA-400DT	WA-1200DT	
Maximum operating flow rate : cfm	5.30	14.13	42.38	
Operating pressure range : psi		14.22~142.23		
Guaranteed withstand pressure : psi	213.35			
Fluid temperature : degF		41~149	1	
Drain exhaust section connections, diameter : Rc		hose nipple ϕ 6mm		
Air plumbing connections, diameter : Rc	1/4	3/8	3/4	
Weight : Ib	1.30	2.45	6.15	



WELLAIR DT series of compressed air purifiers. The auto drain function discharges most of the dirt and oil automatically.

• WA-400DT •





WELL AIR

Compressed air cleaner using a proprietary collision separation method

series

LAR Lineup

As of March 01, 2004 KAMATATECNAS CO., LTD.

WA-400HI

14.13

14.22~227.57

355.58

41~149

1/4

3/8

2.43

WELL AIR

WA-1200HI

42.38

3/4

6.15

WELL AIR



	Drain exhaust section connections, diameter : Ro	С
	Air plumbing connections, diameter : Rc	
	Weight : Ib	
0	WA-150HI •	
	OUT PT1/4	
	OUT PITA	
PT1/	2.96 + Ø2.87-+ 4 + Ø2.58+	
Annalasia	4.92	1
	9.37	
	Ø2.09 4.45	
	- 3 31-+	

Model name

Maximum operating flow rate : cfm

Guaranteed withstand pressure : psi

Operating pressure range : psi

Fluid temperature : degF

WELLAIR HI series of compressed air purifiers. Medium pressure auto drain type. Can be used at pressures up to 1.6Mpa = 16 kgf/cm².

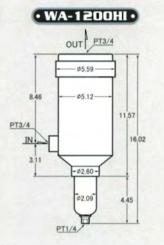
• WA-400HI • OUT PT3/8 +92 +93.15 -6.89 11.34 -92.09 4.45

WA-150H

5.30

1/4

1.28

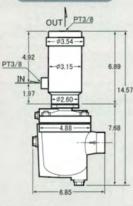


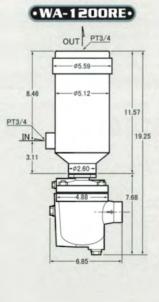
RE series

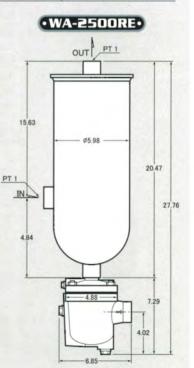
WELL AIR

Model name WA-400RE WA-1200RE WA-2500RE Maximum operating flow rate : cfm 14.13 42.38 88.29 Operating pressure range : psi 14.22~213.35 Guaranteed withstand pressure : psi 213.35 Fluid temperature : degF 41~149 Drain exhaust section connections, diameter : Rc 1/4 Air plumbing connections, diameter : Rc 3/8 3/4 1 Weight : Ib 8.33 11.86 28.88

•WA-400RE•





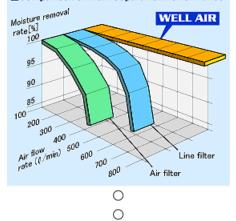


WELL AIR RE series of compressed air purifiers. Equipped with a heavy-duty auto-drain. Discharges virtually all the collected contaminants, especially dirt and oil.

* The appearance and specifications may be changed for improvement.

Comparison Of Water Separation Performance

Comparison of Drain Separation Performance



OUTLINE of water removal performance

As you can see in the figure on the left, the moisture removal rate of the WELL AIR does not drop due to increased airflow rates or after a period of time. It can provide a good continuous supply of clean air to pneumatic devices.

This is because the WELL AIR does not use any elements (such as filters) or any moving parts. That's why there is no deterioration of performance over time.

By using a WELL AIR water remover, you can significantly decrease the number of faulty products that may be caused by malfunctioning pneumatic devices, or by drain residues. Also, you do not need to stop the equipment for maintenance, so you can improve the productivity of plants and each manufacturing site.

Aggregat volume		50	100	200	300	400	500	600	700	800	900	1000	1100	1200
	3kgf/cm2	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Pressure	5kgf/cm2	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
	7kgf/cm2	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%

< The moisture removal test was executed by injecting 30 cc of water and ink at the inlet to the WELL AIR at a speed of 30 cc per sec. >

<References>

Results of a compressor inspection for general bacteria

Specimen	Inspection item	Result
Drain water in a compressor	Number of general bacteria	22,000/ml
Water aerated for 1 1/2 hours by compressed air passing through the WELL AIR	Number of general bacteria (bacteria in the air)	4/ml (cultured for 46 hours)

- The inspection method applied conforms to the service water test method.

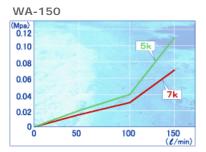
(set by the Life Sanitation Bureau of the Ministry of Welfare)

- Tested by the Japan Environmental Sanitation Center.

- WELL AIR is not sterilizer.

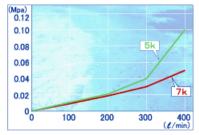
(Test for general bacteria in compressed air.)

Pressure Drop Data



	Primary	pressure
Flow rate	0.5Mpa	0.7Mpa
(L/min.)	0.5101pa	0.7мра
00 0	0 .00	0 .000
0 50	0.02	0.015
100	0.04	0.030
150	0.11	0.070





	Primary pressure		
Flow rate	0.5Mpa	0.7Mpa	
(L/min.)	0.5101pa		
00 0	0 .00	0 .00	
100	0.01		
200	0.02		
300	0.04	0.03	
400	0.10	0.05	

WA-1200

(Mpa) 0.12				-	
0.10					
0.08				5k	
0.06				DK	1
0.04				1	1
0.02			1	-	7k
0	0	600	800	1000 (4	1200 (/min)

	Primary pressure		
Flow rate	0.5Mpa	0.7Mpa	
(L/min.)	0.5101pa		
000 0	0 .00	0 .00	
0600	0.01	0.01	
0800	0.02	0.02	
1000	0.04	0.03	
1200	0.07	0.05	