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

**Compressed Air Cleaner** 

WELLAMR.

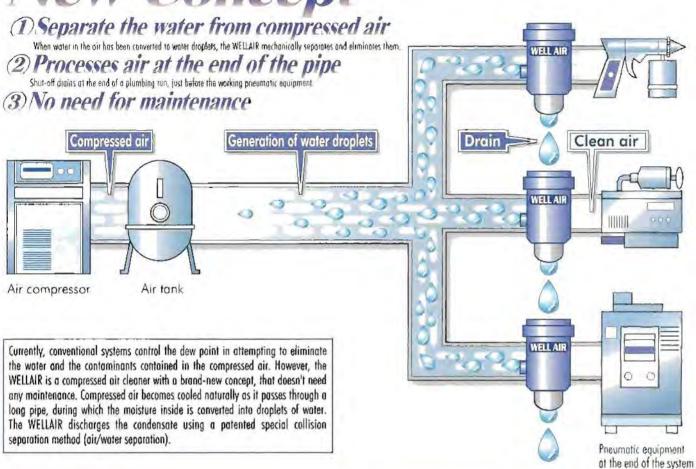
Using a Proprietary Collision Separation Method

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



# WELL AIR separates and eliminates water droplets that collect at the end of pipes.





#### **Conventional systems**

Control dew point

Single point control

#### WELL AIR

## **Special collision Sparation method**

1 No filter 2 No maintenance 3 No need for power

Separate air and water

Air processed just before use

1 Low cost

2 High performance

3 Compact and light weight

### Results after installation

Improved uptime for pneumatic equipment

**Decreased** costs

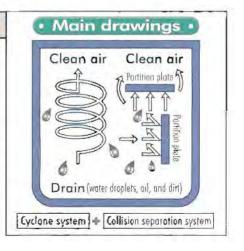
# What is the patented special collision separation method?

■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.

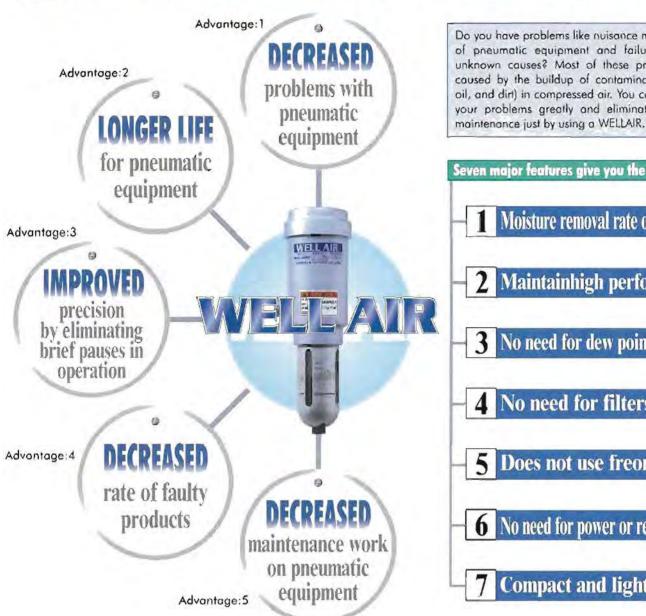
■ The system does not need any consumable elements, such as filters or drying agents, nor does it need electric power or refrigerants. Since it continually separates and eliminates contaminants by itself, it needs no

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.



# WELL AIR brings you the following advantages.

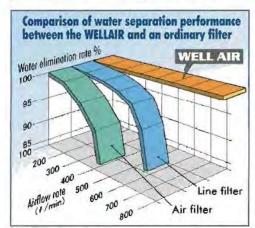


Do you have problems like nuisance maintenance of pneumatic equipment and failures due to unknown causes? Most of these problems are caused by the buildup of contamination (water, oil, and dirl) in compressed air. You can decrease your problems greatly and eliminate nuisance

#### Seven major features give you the advantage

- Moisture removal rate of 99.99%.
- Maintainhigh performance.
- No need for dew point control.
- No need for filters.
- Does not use freon gas.
- No need for power or refrigerant.
- Compact and lightweight.

# WELL AIR = Continuous high performance.



#### ■ Moisture removai test ■

Aggregat	e flow rate	50€/min	100€ min	200€/min	300 € min	4002/min	600€/min	800 6 min	1000£/mm	1200 € min
	3 Kgf/cm <sup>2</sup>	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Pressure	5 Kgf/cm <sup>2</sup>	99,99%	99.99%	99.99%	99,99%	99,99%	99,99%	9999%	99 99%	99.99%
	7 Kgf/cm <sup>2</sup>	9999%	9999%	9999%	99 99%	99.99%	99.99%	99.99%	99.99%	99.99%

The water removal tests were camed out by injecting 30 cc of solution, consisting of water and ink, into the WEYLAR infer 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 ofter buffing the air possing through the WELLAIR for 1.5 hours	Number of bacteria (bacteria in air)	4,'ml (Cultured for 48 hours)

<sup>\*</sup> The inspection method conforms to the test method for city water (Supervised by the Life Sampation Bu-zou of the Ministry of Welfare)

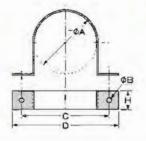
★ The WELLAIR is not a sterilizer

<sup>\*</sup> Wispected by the Jopan Environmental Sociation on Center

# **Options**

#### Mounting bracket





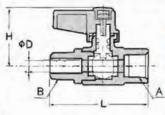
	ØA	В	C	D	Н
For the WA-150	65	Ø5	83	105	15
For the WA-400	81	Ø5	116	136	24
For the WA-1200	135	Ø11	173	205	32

Material: Chrome plated \$541

Unit mm

#### Ball valve : M6



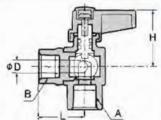


Item name	Nominal diameter	A	В	L	Н	ØD
M6-0606	1/8×6	R1/8 thread	Ø6	74.3	29	6
M6-0808	1/4×8	R1/4 thread	Ø8	78.3	29	6
M6-0809	1/4×9	R1/4 thread	Ø9	78.3	29	6
M6-1010	3/8×105	R3/8 thread	Ø105	823	29	6

Maximum working pressure: 1 OMpo = 10kgl/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





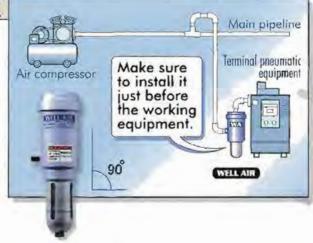
Item name	Nominal diameter	Α	В	L	Н	ØD
ML6-0606	1/4×6	R1/8 thread	Ø6	53.8	29	6
ML6-0808	1/4×8	R1/4 thread	Ø8	55.8	29	6
ML6-0809	1/4×9	R1/4 thread	Ø9	55.8	29	6
ML6-1010	36×10.5	R3/8 thread	Ø10.5	62.3	305	7.5

Maximum working pressure. 1.0Mpg=10kgl/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.
- 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.



Agent:

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



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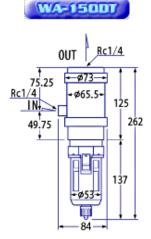
#### DT Series Specifications

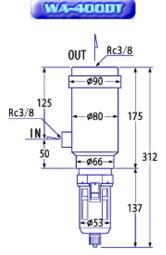
This is the DT series of WELL AIR compressed air water removers with the revolutionary collision separation system. They are best for air that contains lots of dust and oil.

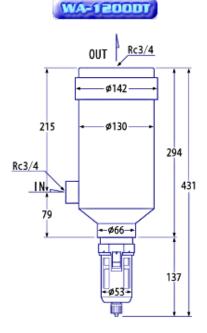
#### ? For European Version

Model name	WA-150DT	WA-400DT	WA-1200DT		
Maximum operating flow rate : NI/min	150	400	1200		
Operating pressure range : Mpa(bar)	0.1-1.0 (1.0-10.0)				
Guaranteed withstand pressure : Mpa(bar)	1.5 (15.0)				
Fluid temperature : oC	5-65				
Drain exhaust section connections, diameter : Rc	hose nipple φ6mm				
Air plumbing connections, diameter : Rc	1/4 3/8		3/4		
Weight : kg	0.59	1.11	2.79		

#### **External Dimensions**











#### HI Series Specifications

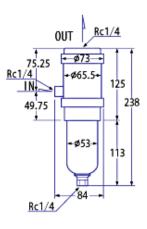
This is the HI series of WELL AIR compressed air water removers with the revolutionary collision separation system. They are for use at medium pressures, up to 1.6 Mpa (16 kgf/cm2).

#### ? For European Version

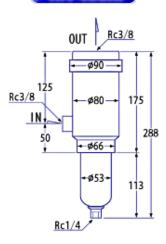
Model name	WA-150HI	WA-400HI	WA-1200HI		
Maximum operating flow rate : NI/min	150	400	1200		
Operating pressure range : Mpa(bar)	0.1-1.6 (1.0-16.0)				
Guaranteed withstand pressure : Mpa(bar)	2.5 (25.0)				
Fluid temperature : oC	5-65				
Drain exhaust section connections, diameter : Rc	1/4				
Air plumbing connections, diameter : Rc	1/4	3/8	3/4		
Weight : kg	0.58	1.10	2.79		

#### **External Dimensions**

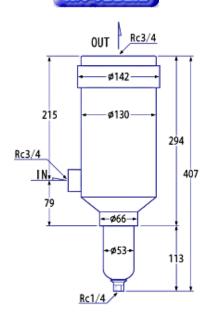




#### WA-400HI



#### WA-1200HJ





This is the RE series of WELL AIR compressed air water removers with the revolutionary collision separation system. They are equipped with a heavy-duty drain outlet.

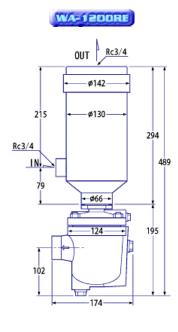


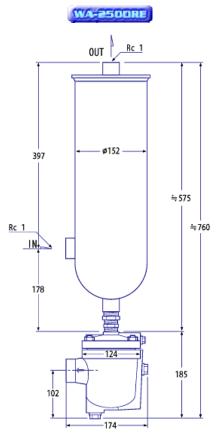
#### ◆ For European Version

Model name	WA-400RE	WA-1200RE	WA-2500RE			
Maximum operating flow rate : NI/min	400	1200	2500			
Operating pressure range : Mpa(bar)	0.1~1.5 (1.0~15.0)					
Guaranteed withstand pressure : Mpa (bar)	1.5 (15.0)			1.5 (15.0)		
Fluid temperature : °C		5~65				
Drain exhaust section connections, diameter : Rc	1/4					
Air plumbing connections, diameter : Rc	3/8	3/4	1			
Weight : kg	3.78	5.38	13.10			

#### **External Dimensions**

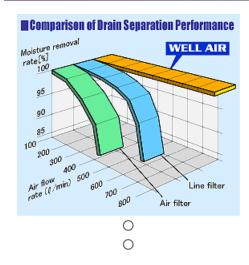
# 0UT Rc3/8 0UT Rc3/8 125 -Ø90 175 102 174





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#### Comparison Of Water 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.

#### Moisture removal rate test of the WELL AIR

Aggregat		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%

<sup>&</sup>lt; 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)		

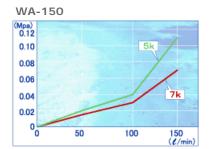
- The inspection method applied conforms to the service water test method.

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

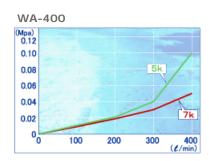
- Tested by the Japan Environmental Sanitation Center.
- WELL AIR is not sterilizer.

(Test for general bacteria in compressed air.)

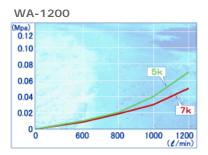
# **Pressure Drop Data**



	Primary pressure			
Flow rate	0.5Mpa	0.7Mpa		
(L/min.)	·			
000	<b>0</b> .00	0.000		
050	0.02	0.015		
100	0.04	0.030		
150	0.11	0.070		



	Primary pressure				
Flow rate	0.5Mpa	0.7Mpa			
(L/min.)	0.5Мра	0.7Мра			
000	<b>0</b> .00	0.00			
100	0.01	0.01			
200	0.02	0.02			
300	0.04	0.03			
400	0.10	0.05			



	Primary pressure	
Flow rate	0.5Mpa	0.7Mpa
(L/min.)		
0000	0.00	0.00
0600	0.01	0.01
0800	0.02	0.02
1000	0.04	0.03
1200	0.07	0.05

X CLOSE