

# Air&Dirt Separators

Air & Dirt seperators are used to continuously remove the air contained in the hydraulic circuits of heating and cooling systems, down to gather and separate the micro-bubble level at a certain flow rate and volume. Choosing the correct deaerator enables the systems to operate under optimal conditions, by fully separating the air or gas.

## Technical features

max working pressure	10 bar
max water temperature	115°C
thread standard	ISO 228/1

## construction

body	CW617N
vent	CW617N
seal	EPDM
floater	PP

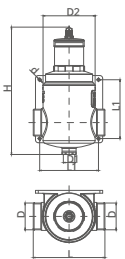
# R290 gas separator

According to EN378 and IEC 60335 standard, TS deaerator is developed as a safety device especially for flammable medium system such as R290 heat pump.

The item has been tested and supply to European customers for several years, thanks to its innovative design, it provides different configurations within standard size and suits for different systems' working conditions. Based on its test data and market's feedback, it illustrate the fantastic separation effects.

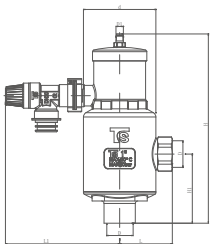


**TS 170001**



Code	D	D1	D2	d	L1	L	H
170001	1½"	1/2"	Ø93	Ø5.5	105	128	227.5

**TS 1702181**

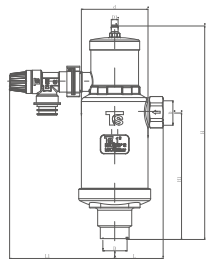


Code	D	D1	d	L1	L	H1	H
1702181	1"	M9x1"	Ø88	139	64	84	230

## Recommendation

Flow rate: ≤2.2m³/h  
R290 injection volume: ≤ 1.5kg

**TS 1703151**



Code	D	D1	d	L1	L	H1	H
1703151	1"	M9x1	Ø88	139	64	167	282

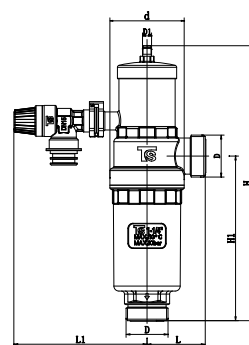
## Recommendation

Flow rate: ≤4m³/h  
R290 injection volume: ≤ 1.5kg





## TS 1703031



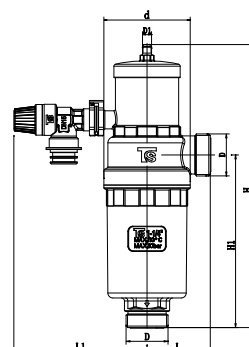
### Recommendation

Flow rate:  $\leq 2.5 \text{ m}^3/\text{h}$

R290 injection volume:  $\leq 1.5 \text{ kg}$  ;  $\leq 2.5 \text{ kg}$  ;  $\leq 3 \text{ kg}$

Code	D	D1	d	L1	L	H1	H
1703031	1 1/4"	M9x1	Ø74	133	58	164	274

## TS 1703041



### Recommendation

Flow rate:  $\leq 4 \text{ m}^3/\text{h}$

R290 injection volume:  $\leq 1.5 \text{ kg}$  ;  $\leq 2.5 \text{ kg}$  ;  $\leq 3 \text{ kg}$

Code	D	D1	d	L1	L	H1	H
1703041	1 1/4"	M9x1	Ø86	133	63	172	282



## R290 gas separator

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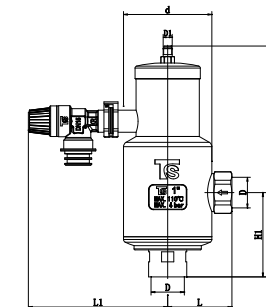
### Technical features

max working pressure 4 bar  
max water temperature 115°C  
thread standard ISO 228/1

### construction

body SUS 304  
safetv valve CW625N/CW617N  
seal EPDM  
floater PP

## TS 1702182



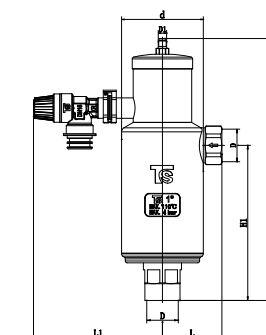
### Recommendation

Flow rate:  $\leq 2.2 \text{ m}^3/\text{h}$

R290 injection volume:  $\leq 1.5 \text{ kg}$

Code	D	D1	d	L1	L	H1	H
1702182	1"	M9x1	Ø88	139	64	84	230

## TS 1703152



### Recommendation

Flow rate:  $\leq 4 \text{ m}^3/\text{h}$

R290 injection volume:  $\leq 1.5 \text{ kg}$

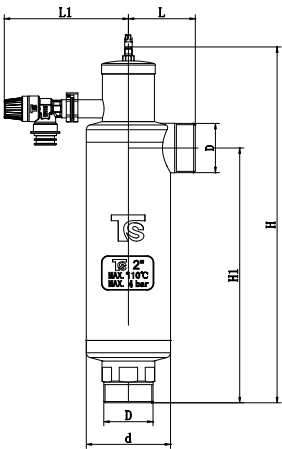
Code	D	D1	d	L1	L	H1	H
1703152	1"	M9x1	Ø88	139	64	167	282



## R290 gas separator

According to the customer demand, TS also develops the stainless version of Gas separator for different working conditions.

**TS 1703502 & 1703522 & 1703532**



### Recommendation

- Flow rate:  $\leq 6\text{m}^3/\text{h}$
- Flow rate:  $\leq 8.6\text{m}^3/\text{h}$
- Flow rate:  $\leq 10\text{m}^3/\text{h}$
- R290 injection volume:  $\leq 1.5\text{kg}$  ;  $\leq 3\text{kg}$  ;  $\leq 4\text{kg}$

Code	D	D1	d	L1	L	H1	H
1703502	1 1/2"	M9x1	Ø88	139	75.5	262	382
1703522	2"	M9x1	Ø102	150	81	308.5	431
1703532	2"	M9x1	Ø102	150	81	378.5	501