Ingersoll-Rand Water Separators

The Problem

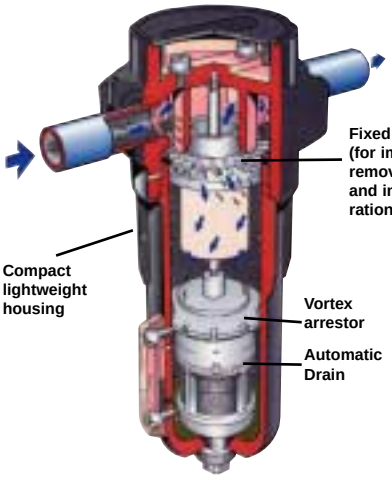
Bulk water which exists in all compressed air systems cause problems - corrosion of piping, permanent damage to valves, cylinders, pneumatic tools, machinery and reducing the effectiveness of aftercoolers/heat exchangers.

The IR Solution

Over 99% of bulk water can be easily and economically removed by installing a Ingersoll-Rand Water Separator. Now, your compressed air system will operate much more efficiently with reduced downtime and maintenance costs. This new patented technology will also improve the effectiveness of aftercoolers, refrigerant dryers, filters and other downstream equipment.

Benefits

- **99% efficient**
- **Low maintenance**
- **Cost efficient**
- **Automatic drainage**
- **Proven patented design**
- **Removes rust and pipe scale**
- **Low differential pressure**



Technical Specifications

Maximum operating Pressure:	**16 bar g (232 psig)**
Maximum recommended operating temperature:	**66°C (150F)**
Minimum recommended operating temperature:	**1.5°C (35°F)**
Typical pressure differential at rated flow @100psi:	**20-60 m bar (0.3-.9 psi)**

Technical Specifications

CCN's	Pipe Size	Flow Rates @7 bar g (102 psi g) NL/s	scfm	Nm'hr	Dimensions mm in A	B	C	D	Weight Kg	lbs
38429973	1/2	40	85	144	89 (3.5)	42 (1.6)	158 (6.2)	60 (2.4)	1.0	2.2
38429981	3/4	60	127	216	89 (3.5)	42 (1.6)	194 (7.6)	60 (2.4)	1.1	2.4
38429999	1	75	159	270	85 (3.3)	23 (0.9)	197 (7.7)	60 (2.4)	1.1	2.4
38430005	1-1/2	150	318	540	120 (4.7)	58 (2.3)	251 (9.9)	80 (3.1)	2.7	5.9

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Application Information

Refrigerant Dryers

The difficulty with refrigerant based dryers is that water will always condensate after the lowest temperature in the heat exchanger. No matter how efficient the heat exchanger can be made, if this condensate water is not removed from the compressed air stream, it will re-evaporate and significantly reduce the dewpoint efficiency.

By installing an Ingersoll-Rand Water Separator at the lowest temperature in the heat exchanger, the best possible outlet pressure dewpoint will be achieved, Typically +1°C (1.8°F) above the lowest temperature. (e.g. lowest temperature +2°C (35.6°F) then outlet pressure dewpoint +3°C (37.4°F)).

Compressors and Aftercoolers

In compressors, condensation occurs between compression stages, and unless effectively removed, causes inefficiency and potential damage. At the aftercooler stage, water will also condense and reduce its ability to achieve maximum air density and minimized power loss. Ingersoll-Rand Water Separators positioned at the point of discharge will remove condensed water and improve overall efficiency and reliability.

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