

50-250 CFM

CHWS Series

Why do I Need a CHWS Oil Water Separator?

Oil-injected air compressor condensate is known to contain carryover oil at levels that are above local and federal regulations. The EPA has strict standards about the disposal of these oils that get mixed with water during the compression process due to concerns about waste water treatment and ground water contamination. The fines for non-compliance can be severe!

While the federal regulations restrict contaminants from compressor condensate to less than 40 PPM, a typical compressor condensate system has 500-3000 PPM of contaminants. When properly sized and installed, the CHWS oil water separator can reduce the contaminants in your compressor condensate to less than 10 PPM, for the life of the unit.

The Advantage of Active Filtration

The CHWS-250 oil water separators from Champion utilize an active filtration process. This approach utilizes a molecular sieve that removes virtually all the hydrocarbons from the condensate stream in a very cost-effective manner. Utilizing a natural substrate that is modified to create an ionic charge, the system attracts the hydrocarbons to active sites and bonds the hydrocarbons to the natural substrate. This active filtration helps achieve a higher utilization of the media bed; providing an industry leading capacitance. Due to the bonding of the hydrocarbons to the substrate, temperature variations and vibration will not dislodge the hydrocarbons from the substrate.



CHWS-50 & 100

- Alumina silicate substrate media bed prolongs the life of unit
- Factory mounted decompression chamber provides a simple installation
- Spin on / Spin off cartridges for quick maintenance with no mess
- No priming required
- Discharge to below 10 PPM
- Handles all compressor lubricants
- Versatile, media operates regardless of specific gravity, relative humidity or emulsification
- Wall mount bracket affords easy installation

CHWS-250

- Advanced molecular filtration
- Factory mounted decompression chamber provides a simple installation
- Simple and fast installation
- Sleek design with minimal footprint
- Industry leading capacitance
- Laboratory tested, field proven results
- Less than 10 PPM for life of product
- Maintenance free life cycle

HP	LIFESPAN IN MONTHS		
	CHWS-50	CHWS-100	CHWS-250
5	18	24	24
7.5	18	24	24
10	12	18	24
15	12	18	24
20	6	12	12
25	6	12	12
30	3	6	12
40			12
50			12
60			6

Lifespans may vary due to differences in air compressor oil consumption rates, age and maintenance of the compressor.

SPECIFICATIONS

MODEL	STAGES OF SEPARATION	INLET/OUTLET	HEIGHT	WIDTH/DEPTH	MAX FLOW (GPM)	MAX WORKING PRESSURE	MAX TEMP (°F)
CHWS-50	1	¼"	27	7.5 × 4	0.5	175 PSI	125
CHWS-100	2	¼"	27	13 × 4	0.5	175 PSI	125

MODEL	INLET PORTS	HEIGHT	WIDTH/DEPTH	MAX FLOW	MIN/MAX TEMP	DRY WEIGHT	SATURATED WEIGHT
CHWS-250	4 x 1.4"	22"	11"	1.5 GPM	33° F to 125° F	41 lbs	60 lbs

CHAMPION®

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