

PERFORMANCE : Proved efficiency rating of 99.9% down to 5 microns and capable of reducing moisture content from 17000 PPM to 8000 PPM in one passage offering minimum resistance to air flow with low pressure drop.

CONSTRUCTION : The filter case (1) is made of heavy steel, and is able to withstand the hardest usage. The whole construction conforms to the British Standard specification for air receivers, and statutory requirements are met in every respect. Above the filter element (4) is a deflecting shield assembly (3) to direct the incoming air stream (L) downwards to a skirt of perforated metal (5) filled with brass wool which collects oil and water by capillary attraction and, being in contact with the outer filter case, allows the liquid impurities to run to the base (8) Periodically, the liquids are drawn off by a conveniently situated drain tap (7) The air or gas then passes through the filter element (4) which removes all dust or scale particles.

This **CADILLAC** element is constructed of specially fabric felt and gauze stitched together, folded into a series of deep corrugations and formed into a cylindrical pattern. The air or gas after passing under the metal skirt, is diffused over the exterior surface of this element and is, in consequence, slowed down to approximately one two-hundredth of its velocity. However, because of the fact that the filter area is approximately two hundred times larger than the pipe bore area, the actual rate of pipe line flow remains unchanged. The finest possible degree of filtration is thus obtained and jagged or abrasive dirt particles do not pierce the material of the filter element.

THERE IS VIRTUALLY NO RESTRICTION TO THE AIR FLOW THROUGH THE FILTER ELEMENT.

OPERATION OF FILTER : As the air passes through the filter, solid contaminants are retained within the insert (4). Water and oil droplets are coalesced on reaching the filter media and the heavier mass then drains from the insert to the base (8). Periodically, the liquids are drawn off by a drain cock (7).

SERVICE & MAINTENANCE : The filter units require no attention other than running off the collected liquid impurities and occasional cleaning of the filter element. To dismantle the filter, unscrew the bolts, remove the bottom (8) case, unscrew the wingnut, the insert assembly may now be withdrawn and dismantled by the nuts, and slipping the element (4) out of the deflecting shield assembly (3) The secondary filter may be cleaned by blowing compressed air jet from clean side and the primary filter element may be cleaned by immersion in any degreasing agent.

AUTOMATIC DISCHARGE OF LIQUID IMPURITIES : An Automatic Discharge Valve is also available with us for use with CADILLAC Moisture Separators, which can be provided on special request by the customer.

Free Air Capacity m3/ hr at Various Gauge Pressures

Gauge Pressure Kg. cm²

Model	2.1	3.1	4.2	5.2	6.3	7.0	7.4	8.9	9.5	10.5	12.6	14.8	21.2	27.2	35.2	B.S.P. Pipe Sizes
CPH001	40	52	68	82	95	104	109	122	136	150	177	204	286	386	468	1/2"
CPH01	80	108	134	153	179	196	204	230	255	281	332	383	535	705	875	3/4"
	204	272	340	410	476	517	544	612	680	748	884	1020	1428	1707	2332	1"
CPH2/4	306	408	510	612	714	765	775	918	1026	1129	1326	1530	2142	2815	3499	1 1/2"
CPH 5	510	684	852	1020	1190	1285	1360	1530	1710	1881	1210	2550	3570	4692	5831	2"
CPH 6	1026	1363	1700	2050	2380	2584	2724	3060	3410	3751	4420	5100	7140	9384	11676	3"
CPH 7	1278	1700	2125	2549	2975	3230	3400	3825	4250	4675	5525	6375	8925	11730	14578	4"

- 1) THE RELATIVE HUMIDITY & PPM OF WATER PARTICLES IN THE AIR ARE TESTED IN OUR WORKS BY R. H. INDICATOR.
- 2) ALL CASINGS ARE TESTED HYDROLOGICALLY & PNEUMATICALLY AT THE REQUIRED PRESSURE AS PER BS 2381.

For detail enquiry please contact us :



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