

# Wide SP-E-(EX)

## Wide SP-E-EX heat traced air intake demister

When fog, rain or wet snow hits the freezing cold metal surface of an air intake, the air intake may choke up by a growing ice plug.

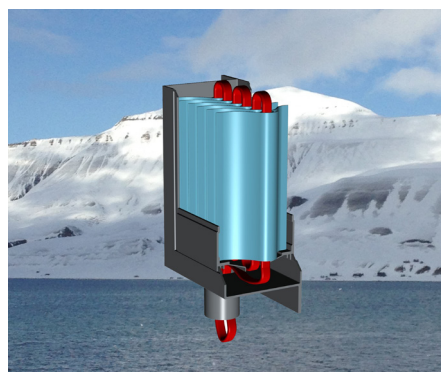
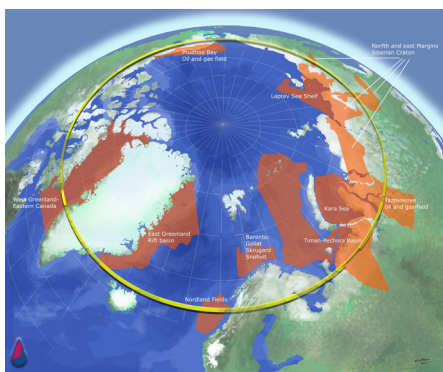
Wide SP-E-Ex is a separator with defroster cable that will heat up the separator vanes when the surface temperature drops below + 2 degree C. The Heat Cable is placed inside the separator vane, ensuring the entire surface will stay 4 – 10 degrees above the air temperature. This effectively prevents fog, rain or snow to accumulate or grow ice crystals on the metal. The pocket on the vane will be sufficiently heated to melt the snow that is collected. A special energy economising technique developed by AS Wide ensures that the heat is distributed to areas on the vanes where it will have the best protecting effect.

**Material:** Seawater resistant aluminium AA6063.



## Control System

The Heat Cable may be controlled by a complete thermostat/contacter arrangement in an adjacent box supplied by us. As standard, power is controlled by a thermostat set at +4 centigrade Celsius. However, for larger panels the total power consumption is considerable, and the power control is usually best provided by the in-plant control system. This would allow for smarter energy saving, possibly in conjunction with ice- and snow- detectors, etc.



## 20 years of experience

- Deliveries to more than hundred of ships.
- Deliveries to more than 400 million m<sup>3</sup>/h
- Deliveies to all rigs in the North Sea and the Barents Sea.

## Benefits

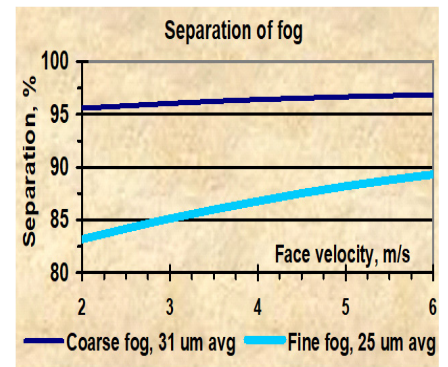
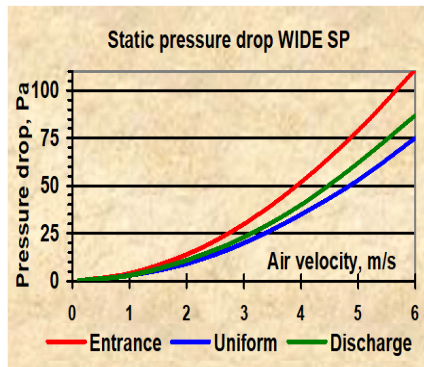
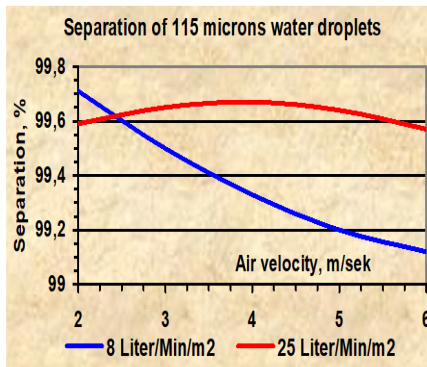
- Design for summer- and winter operation
- Heat cable trough each vane
- Prevent hoar frost
- Extremely high separation of fog and rain
- Keep air intake open during all weather conditions

## Certi ication

- Atex, zone I



# Wide SP-E-(Ex)



Separation efficiency for Rain and Fog tested in accordance to test procedures developed for Wide Inertial Separators at SINTEF Energy Research, Norway. Rain and Fog are used as specific terms related to droplet size and distribution in the test arrangement. Higher water loads (in number of droplets) give higher separation efficiency.

Separation for rain and pressure drop are tested by SP Swedish National Testing and Research Institute in accordance with SS EN 779 and 13030.

## SP-E-Ex for 2,3 m/s, WINTER OPERATION

m3/t

H \ W	500	1000	1500	2000	2500	3000	3500
500	1078	2361	3645	4928	6212	7495	8778
750	1947	4266	6584	8903	11221	13539	15858
1000	2817	6170	9524	12877	16230	19584	22937
1250	3686	8075	12463	16851	21240	25628	30017
1500	4556	9979	15402	20826	26249	31673	37096
1750	4764	10436	16108	21780	27452	33123	38795
2000	5634	12341	19047	25754	32461	39168	45875
2250	6503	14245	21987	29729	37470	45212	52954
2500	7373	16149	24926	33703	42480	51257	60033
2750	8242	18054	27866	37677	47489	57301	67113
3000	9111	19958	30805	41652	52499	63345	74192

## SP-E-Ex for 6 m/s, SUMMER OPERATION

m3/t

H \ B	500	1000	1500	2000	2500	3000	3500
500	2812	6160	9508	12856	16204	19552	22900
750	5080	11128	17176	23224	29272	35320	41368
1000	7348	16096	24844	33592	42340	51088	59836
1250	9616	21064	32512	43960	55408	66856	78304
1500	11884	26032	40180	54328	68476	82624	96772
1750	12429	27225	42021	56817	71613	86409	101205
2000	14697	32193	49689	67185	84681	102177	119673
2250	16965	37161	57357	77553	97749	117945	138141
2500	19233	42129	65025	87921	110817	133713	156609
2750	21501	47097	72693	98289	123885	149481	175077
3000	23769	52065	80361	108657	136953	165249	193545