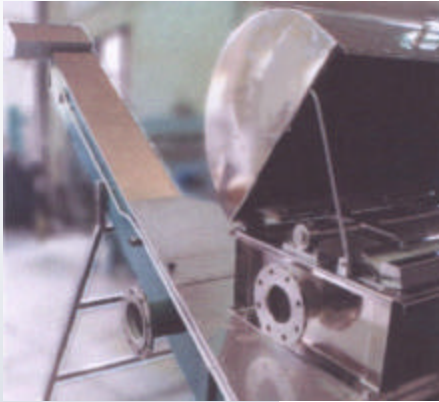


SEWAGE RECEIVING STATION

Integrated Coarse Pre-Treatment ECONOMY- ICPE



The economy system for integrated coarse pre-treatment is a combination of a wiped cylinder screen (SVS) and our GRIT-GUARD grit classifier (SP). It ensures an economical and simple solution for removing screenings and for grit separation from wastewater.

The system is designed for lower capacity wastewater treatment plants (including industrial applications) with a rate of flow up to 10 l/s (160 gpm).

The function of an ICPE pre-treatment system is to remove coarse particles, vegetable matter, floating and suspended substances, pebbles, etc. in the screen, and then to separate grit with grain size exceeding 0.2 mm (0.008"). During this process, water and most organic substances are drained from the grit.

The major advantages of the ICPE pre-treatment system are its simplicity, the small footprint required and the possibility of installing it on a hard surface without the need for extensive construction.

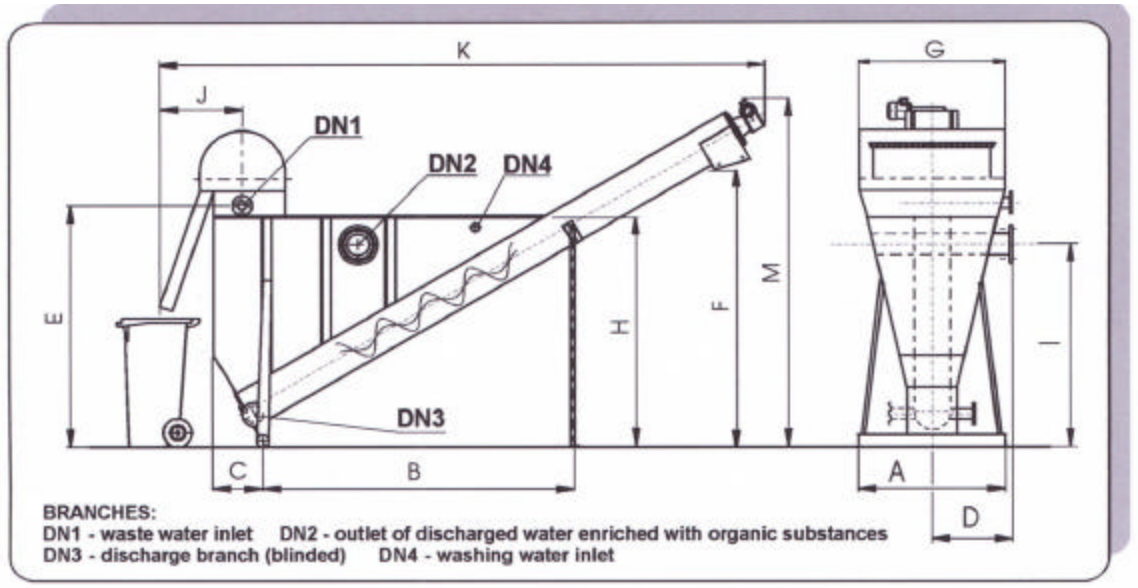
SPECIFICATIONS	
Rate of Flow:	3, 5, 7, 10 l/s ¹ (50, 80, 110, 160 gpm)
Supplementary wash water:	1 l/s ¹ (11 gpm) at 0.3 MPa (4.5 psig) for the working cycle interval.
Operating Cycle Interval:	Operational interval – adjustable on the control panel
Power Input:	SVS drive – 0.18 kW (¼ HP) SP screw – 1.1 kW (1½ HP) Solenoid Valve – 30 W / 220 V Optional Heating Unit – 2100 W / 120 V
Operating Conditions:	Indoor – in a building Outdoor – down to -20° C (-4° F) with heating option.
Material:	Stainless steel

Product Model Identification: ICPE Q [l/s⁻¹]



ISO 9001

The GRIT-GUARD classifier is anchored to its foundation and adjusted to properly fit a wiped cylinder screen. The screen is covered and located on the upper lid of the tank. Wastewater is pumped into the SVS screen where it is filtered and conveyed through to the grit classifier. The trapped solids are wiped by the screen raking mechanism and conveyed to the discharge chute and then discharge into a container. Grit particles in wastewater pass through the screen and flow into the classifier where they are rinsed in intervals with washing water and separated from the organic substances. Discharged water enriched with organic substances overflows to the drain. The washed grit is conveyed and dewatered by a screw conveyor and then discharges into a container. The capacity and types of containers shall be specified during the design.



DIMENSIONS: (in mm unless otherwise noted)

Type	Q (l/s)	DN1/PN	DN2/PN	DN3/PN	DN4	A	B	C	D	E
ICPE 3	3	65/10	150/10	80/10	1"	1000	2180	300	400	1620
ICPE 5	5	100/10	150/10	80/10	1"	1000	2180	350	500	1620
ICPE 7	7	125/10	150/10	80/10	1 1/2"	1300	2180	400	600	1700
ICPE 10	10	125/10	150/10	80/10	1 1/2"	1300	2180	510	700	1700
F	G	H	I	J	K	L	M	O	P (kW)	m (kg)
1800	780	1500	1300	240	4700	230	2650	1000	0.18 + 1.1	515
1800	870	1500	1300	240	4800	230	2650	1000	0.18 + 1.1	600
1800	1325	1500	1300	490	4900	230	2680	1000	0.18 + 1.1	710
1800	1525	1500	1300	490	5000	230	2680	1000	0.18 + 1.1	770

Note: The weight specified above applies for non-heated design only

The drive is provided in the form of an electric gearbox. Both manual control and automatic operation are featured in the control panel which enables adjustment of all time intervals and other controls.

For proper sizing and arrangement of ICPE for wastewater treatment applications, PRO-Equipment, Inc. offers technical support as needed.



PRO-Equipment, Inc. www.proequipment.com
237 Wisconsin Ave., Waukesha, WI 53186
Tel: 1-262-513-8801 Fax: 1-262-513-8897