

Oil Skimmer Conveyor

CP10-ENG rev. 3

General description

IPCO steel belts are used to continuously separate oil from water. This is a simple solution to the problem of oil pollution in water outlets.



Function description

The units operate on the principle that adhesion of oil to steel is greater than water to steel. By having one end of the unit immersed into the liquid, the steel belt, when traveling upwards, collects an oil film while the accompanying water will drip off, enabling a separation rate of almost 100%.

The oil is scraped off on both sides of the steel belt and collected in a common outlet from the skimmer.

The speed of the belt is about 10 m / min.

The steel belt is tracked by the two sheaves and a rubber v-rope attached to the steel belt.

Separation capacity

The capacity of the different skimmers is of course depending on the viscosity of the oil.

Examples of the separating capacity are in table below.

Model	100	200	400
Separation capacity (liter per hour)			
Aircraft fuel	10	25	50
White spirit	50	100	200
Fish oil	75	150	300
Fuel oil	100	200	400

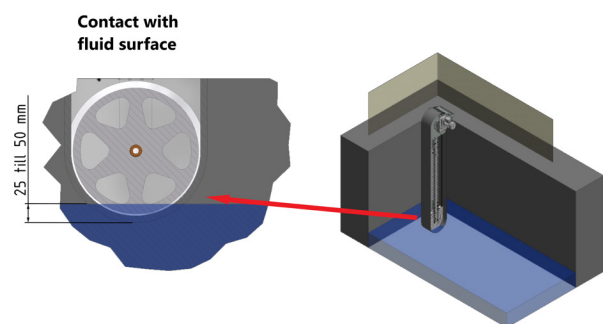
Available skimmer models

There are three models based on belt width, 100, 200 and 400 mm and each model is available in three standard lengths, Lh, 1 000, 2 000 and 3 000 mm. Lifting height (Lh) is the distance from the lowest point on the skimmer to the outlet at the top of the skimmer.

Skimmer model	100	200	400
Belt width, mm	100	200	400
Weight, Lh = 1 000 mm, kg	37	44	51
Weight, Lh = 2 000 mm, kg	41	49	57
Weight, Lh = 3 000 mm, kg	61	72	83
Drive power, kW	0,12		
Connection 50 Hz	220 – 240 V (D) / 380 – 415 V (Y)		
Connection 60 Hz			

Placement

The end-pulley (sheave) should be submerged about 25-50 mm below the liquid's surface.



Scope of supply

Included in the delivery of a skimmer are a complete mechanical frame (zinc plated or stainless), a stainless steel belt (material: IPCO 1200SA), and the electrical drive and reducer.

Electric connection points are the connection box on the drive.

Mechanical connection points are located on the frame, which has holes along its whole length

Lifting height and packing

The skimmer will be delivered in a wooden box having these approximate dimensions:

Available sizes for AT

Model	Width	Height	Length
100	500	650	Lh + 0,4
200	560	660	Lh + 0,4
400	770	740	Lh + 0,4

