

## TC 100 IF

# Industrial vacuum for oil & chips recovery

The TC100 IF vacuum cleaner is a powerful three-phase vacuum equipped with a side channel blower, designed specifically for the mechanical industry and maintenance of CNC machine tools. Coolant liquids and emulsions can be suctioned continuously, even 24 hours a day, separating off any metal chips and allowing the vacuumed liquid to be reused. This can mean significant savings in terms of money and time spent servicing machinery. 100 litre liquid capacity, 40 litre sieve grid basket for metal chips and rapid discharge of liquid via reversed airflow.



### Suction unit

The suction unit is a side channel blower, with direct coupling between the motor and the impeller fan. It designed without any transmission system, and is therefore silent, totally maintenance free and suitable for continuous duty operations. The reverse flow system, activated by a manual valve placed at the top of the motor head, allows to rapidly discharge liquid by using an oil resistant discharge hose. The hose includes a valve in the discharge nozzle.

#### Main Features:

- Sturdy vacuum cleaner for intensive use
- Easily removable container for safe disposal of collected material
- Compact and mobile
- Save money by recovering and reusing oil and coolant
- Discharge system through reverse flow by means of a hose. No need of discharge pump
- High efficiency filtration
- Low noise level
- PPL filter for chips separation



### FILTRATION UNIT

A floating device stops the suction whenever the liquid in the container reaches the maximum level and prevents overflowing. A propylene filter for liquids is installed upstream. This filter guarantees the efficient filtration of the vacuumed oil; an additional plastic foam filter prevents most of the liquid mist from getting to the motor. SUPERWEB 3D primary filter is a special and hydro-oleophobic filter which guarantees the maximum oil separation while protecting the engine from oily mists and atmospheric dust.



### COLLECTION UNIT

The unit is manufactured with thick painted steel for improved sturdiness and long-lasting lifetime. The vacuumed liquid can be discharged quickly by means of a reversed airflow system, which can be activated by rotating a knob. The container is detachable, compact and contains the sieve grid which retains the solid particles.



## MODELS AND DATASHEET

| MODELS                          | TC 100 IF           |
|---------------------------------|---------------------|
| Power (V—Hz)                    | 400—50              |
| Power (kW)                      | 3                   |
| Max Waterlift (mmH2O)           | 3,000               |
| Max Airflow (m3/h)              | 318                 |
| Noise level (EN ISO 3744) dB(A) | 78                  |
| Filter Type                     | 3D Superweb         |
| Surface—Diameter (cm2-mm)       | 500                 |
| Media—Filtration                | Polypropylene—300µm |
| Discharge System                | Reverse flow        |
| Liquids capacity (Litres)       | 100                 |
| Solids capacity (Litres)        | 40                  |
| Discharge speed (L/min)         | 200                 |
| Floating Device                 | Yes                 |
| Dimensions (cm)                 | 67 x 66 x 135h      |
| Weight (kg)                     | 95                  |



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