

A-SMOKE80TF CENTRALIZED FILTER UNIT



TECHNICAL SPECIFICATION

Model	80TF 11kW	80TF 15kW
Height with centred outlet [mm]	3900	3900
Width, excl. pump housing (with pump case +80 mm) [mm]	1143	1143
Depth [mm]	2120	2120
Standard inlet connection [mm]	ø400	ø400
Standard outlet connection [mm]	ø500	ø500
Standard return oil connection (with pump R3/4) [in]	R1 1/4	R1 1/4
Weight with dry filter cassettes (with wet filter cassettes) [kg]	1450 (1700)	1450 (1700)
Available dim. ext. pressure drop [Pa]	500	1900
Filter cassettes		
Absolent filter cassettes [pc]	4	4
HEPA (H13) [pc]	2	2
Performance		
Max. permissible air volume [m ³ /h]	8000	8000
Sound level, 3m in front of filter unit ¹⁾ [dB(A)]	73 ¹⁾	74 ¹⁾

1) Sound absorption in premises=200m², Hemispherical sound propagation.

DESCRIPTION

The Absolent type A-smokeT Oil smoke filter features one of the most effective systems in the world for cleaning oil mist and oil smoke. A-smokeTF is a central filter unit with integrated fan and is designed for air volumes up to 8000m³/h. The filter unit is designed for handling the most demanding applications, such as heat treatment. At the same time, maintenance is minimal.

Having the highest possible collecting efficiency, the filtered air becomes so clean that it usually can be returned to the premises. This means less loss of energy and a more balanced ventilation.

Oil smoke particles are very small, smaller than 1.0µm. Other filter types, as for example centrifugal filters, have difficulties with small particles. The Absolent filter unit is designed just for this purpose.

Absolent filter units are extremely low maintenance and can usually run for up to 6 years without filter change. This results in a low total cost of ownership.

The fan, as the only moving component, is placed at the clean-side to minimize wear & tear.

OPERATION

The filtering process occurs in three stages. The first and second stages consist of self-draining Absolent filter cassettes. Here, a minimum of 95% of the oil mist and smoke is arrested. The third stage consists of a HEPA-filter, which has a guaranteed and consistent collecting efficiency of 99.99% arresting 0.3µm dia. particles.

The filter unit has an electronic pressure gauge, A-monitor, which shows the pressure drop over the different filter stages and indicates when a filter cassette is to be changed. Thanks to the continuous draining of the filter cassettes, the unit can be operated without interruptions. The return oil is collected at the bottom of the filter for recycling.

APPLICATIONS

- Heat treatment
- Cold-drawing
- Gear cutting
- Grinding with neat oil
- CNC turning with neat oil
- Forging operations and cold pressing

AES OFFER INSTALLATION AND SERVICE SUPPORT FOR ALL EQUIPMENT

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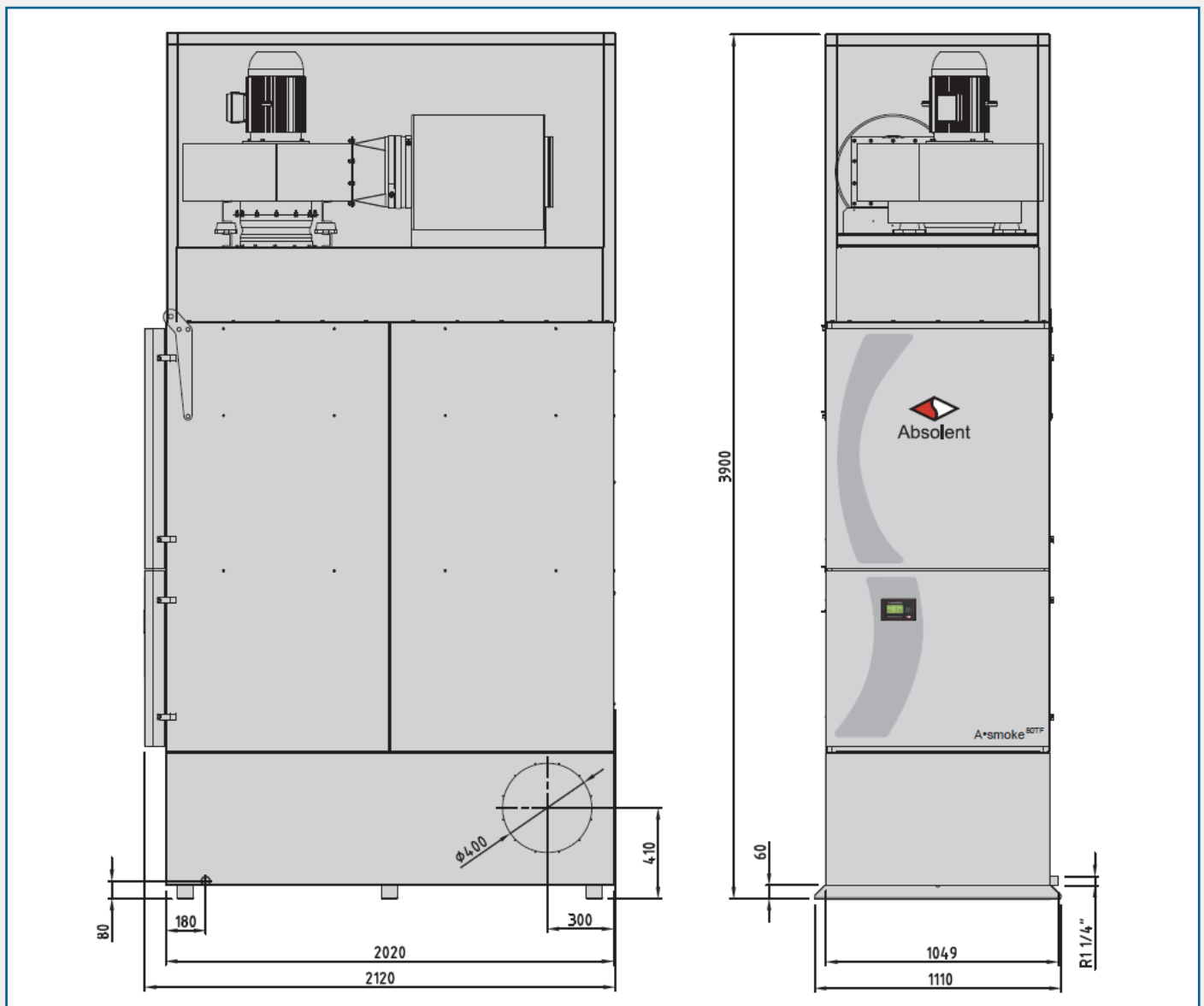
STANDARD EQUIPMENT

- RAL 7035 fine structure (other colours on request!)
- Electronic manometer for reading the pressure drop across the filter
- Integrated fan unit
- Lifting lugs

ACCESSORIES

- Automatic starter
- Pump unit for drained liquid
- Control of pump equipment
- Frequency control of the fan with constant pressure control
- Duct connections for various types of steel or plastic ductwork available on the market
- Filter sledge for easier change of filter cassettes
- Special colour

A-SMOKE80TF DIMENSIONS



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