

Product fiche LG 1800 F KN

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| Model ID | LG 1800 F KN |
| Type | Ventilation plant for non-residential use, central ventilation plant |
| Drive type | Speed control |
| Type of heat recovery * | Other heat recovery system |

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|--|-----------------------|--------------|------------|
| Thermal transmission with validation conditions (EN308) | η_{t_nwla} | 77,30 | [%] |
| Nominal airflow | qnom | 1.700 / 0,47 | [m³/h] |
| Electrical input power (effective power) | Pel,ges (Pm) | 0.64 / 0,912 | [kW] |
| Internal specific fan power / Validation | SVLint (SFPint) / SFP | 566 / 1355 | [W/(m³/s)] |
| Classification of the specific fan power / Validation | SFPv-class | SFP1 / SFP1 | [-] |
| Maximum permissible SVLint as of 2018 in accordance with EU regulation 1253/20 | SVLintlimit_2018 | 1.158 | [W/(m³/s)] |
| Transfer velocity SUP / ETA | w | 1,12 / 1,12 | [m/s] |
| Velocity class SUP / ETA | V-class | V1 / V1 | [-] |
| Nominal outside pressure SUP / ETA | dps, ext | 200 / 200 | [Pa] |
| Internal pressure drop across ventilation components SUP / ETA | dps, int | 161 / 135 | [Pa] |
| Internal pressure drop across non-ventilation components SUP / ETA | dps, add | 8 / 5 | [Pa] |
| Static efficiency fan SUP / ETA (design point) | nfan | 52,8 / 51,79 | [%] |
| Maximum external air leakage at +400 / - 400 Pa | | 0,17 / 0,12 | [%] |
| Maximum internal air leakage (at 250 Pa) | | 2,00 | [%] |
| Annual energy class SUP-Filter (Speed 1) ** | ePM1 55% | 944,07 | [kWh] |
| Annual energy class SUP-Filter (Speed 2) ** | | | [kWh] |
| Annual energy class ETA-Filter ** | ePM10 75% | 842,67 | [kWh] |

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|---------------------------|------------------------------|
| * Types of heat recovery: | no |
| | closed-circuit-system |
| | other types of heat recovery |

** The energy class is calculated based on the annual operating hours (8760 h) and average pressure loss (see table below for final pressure loss pursuant to ÖNORM EN 13053).

| Max. pressure drop across filter pursuant to ÖNORM EN 13053: | Filter class | Final pressure difference |
|--|--------------|---------------------------|
| | G1-G4 | 150 Pa |
| | M5-F7 | 200 Pa |
| | F8-F9 | 300 Pa |

For units without a controller:

The ventilation unit is to be equipped with a controller that continuously adapts the electrical energy with which the fans are supplied, in order to control the air volume flow. In addition, the controller must be able to control the heat exchanger bypass. In order to ensure compliance with ErP2018, the customer agrees to provide the ventilation unit controller with an optical indicator device or an acoustic warning device that is triggered when the pressure drop on the filter exceeds the maximum permissible value (see table for maximum filter drop loss values).

Only if these conditions are met, the ventilation unit complies with the EU regulation 1253/2014.

PLEASE NOTE: Plant efficiency will drop and power consumption will increase unless the filters are replaced regularly.

Visual filter warning (for units with Air-2-controller)

The ventilation unit has a visual warning to replace the filter. An error message will be displayed on the control panel when the set pressure difference is exceeded.

PLEASE NOTE: Plant efficiency will drop and power consumption will increase unless the filters are replaced regularly.

Disposal

Equipment that is no longer functional must be uninstalled by a specialist firm and properly disposed of at a suitable facility. The Electrical and Electronic Equipment Act (EAG-VO), implementing Community law Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE Directive) applies.



Information based on the current state of knowledge of EU Regulation 1253/2014
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