

# KOMFORT EC LBE 300-E S21

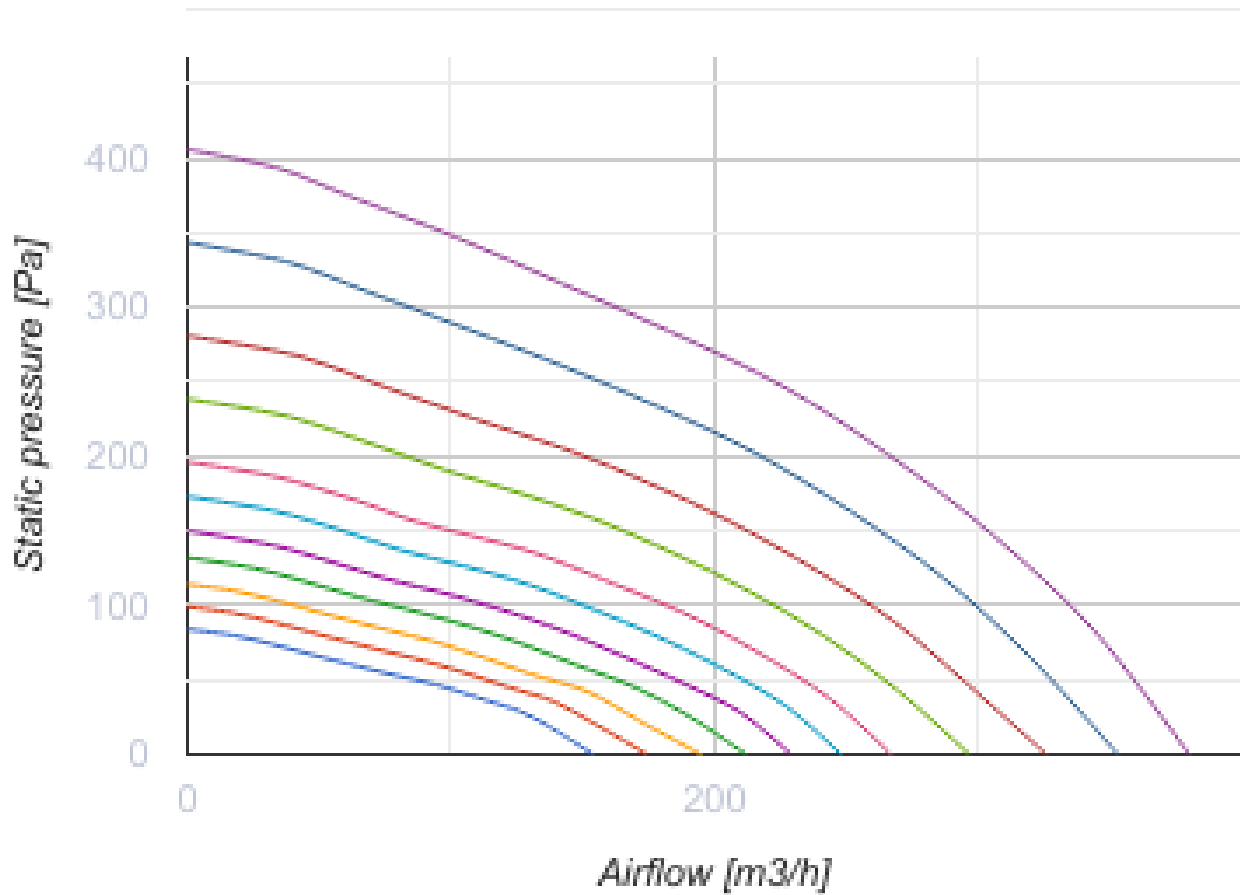
Heat recovery air handling units

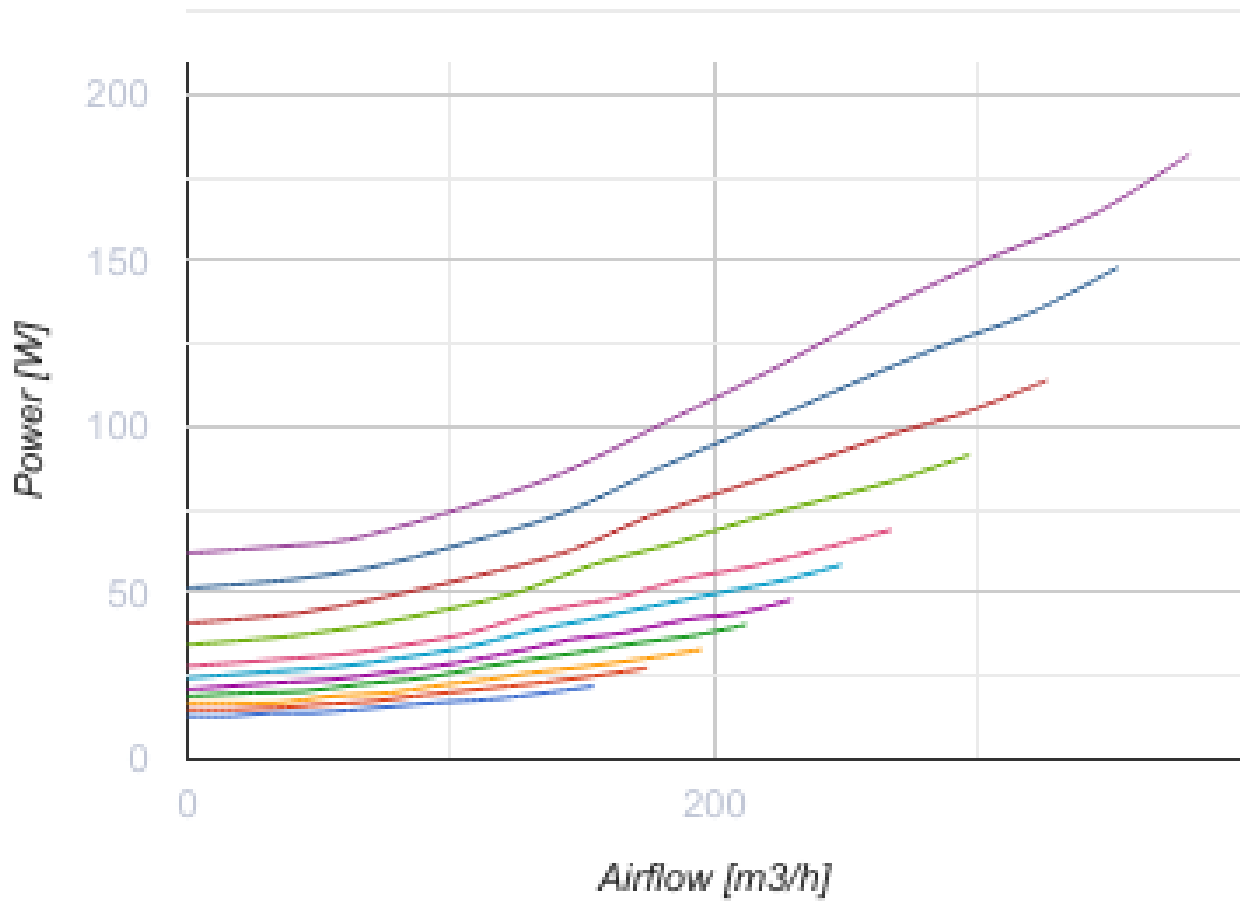


- Power of electrical reheater: 2800
- Maximum airflow: 380
- Sound pressure level LpA at 3 m: 24
- Heat exchanger type: Counter flow
- Extract filter: G4
- Supply filter: G4 + F7
- Sound insulation
- Motor type: EC
- Enthalpy heat exchanger
- Bypass: Auto
- Reheater: Electric
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Aluzinc steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- VOC sensor: Optional
- PM2.5 sensor: Optional

|                                   | Unit of measurement | KOMFORT EC LBE 300-E S21 |
|-----------------------------------|---------------------|--------------------------|
| Connected air duct size           | mm                  | 160                      |
| Speed                             | -                   | 1                        |
| Phases                            | -                   | 1                        |
| Minimum supply voltage            | V                   | 230                      |
| Maximum supply voltage            | V                   | 230                      |
| Power supply frequency            | Hz                  | 50/60                    |
| Rated power                       | W                   | 182                      |
| Power of electrical reheater      | W                   | 2800                     |
| Unit current                      | A                   | 13.6                     |
| Maximum airflow                   | m <sup>3</sup> /h   | 380                      |
| Sound pressure level LpA at 3 m   | dB(A)               | 24                       |
| Heat recovery efficiency, max     | %                   | 89                       |
| Heat exchanger type               | -                   | Counter flow             |
| Heat exchanger material           | -                   | Enthalpy                 |
| Weight                            | kg                  | 64.3                     |
| Extract filter                    | -                   | G4                       |
| Supply filter                     | -                   | G4 + F7                  |
| Transported air temperature (max) | °C                  | 40                       |

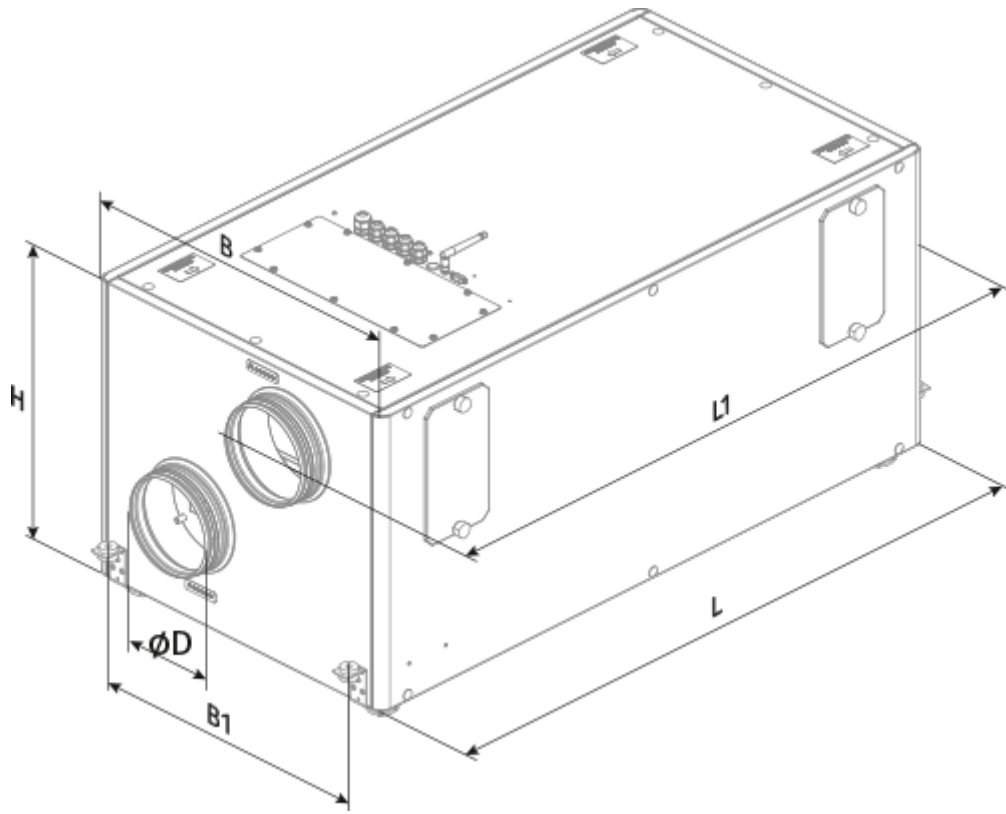
|  |    |      |
|--|----|------|
| Transported air temperature (min)      | °C | -25  |
| Ambient air temperature min            | °C | 1    |
| Ambient air temperature max            | °C | 40   |
| Ambient air humidity max               | %  | 60   |
| Ingress protection rating              | -  | IP22 |
| Ingress protection rating of the drive | -  | IP44 |



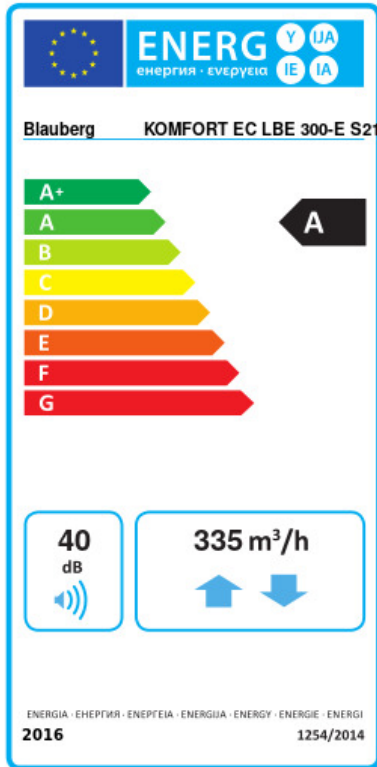


## Dimensions

| Ø D | B   | B1  | H   | L    | L1   |
|-----|-----|-----|-----|------|------|
| 157 | 566 | 480 | 479 | 1083 | 1180 |



## Ecodesign




|   |                          |    |         |   |      |   |
|---|--------------------------|----|---------|---|------|---|
| Trademark   | Blauberg                 |    |         |   |      |   |
| Model   | KOMFORT EC LBE 300-E S21 |    |         |   |      |   |
| Specific energy consumption (SEC) (kWh/(m <sup>2</sup> /a)) | Cold                     |    | Average |   | Warm |   |
|   | 78.4                     | A+ | 40.9    | A | 16.8 | E |
| Type of ventilation unit                                    | Bidirectional            |    |         |   |      |   |
| Type of drive installed                                     | Variable speed           |    |         |   |      |   |
| Type of heat recovery system                                | Recuperative             |    |         |   |      |   |
| Thermal efficiency of heat recovery (%)                     | 80                       |    |         |   |      |   |
| Maximum flow rate (m <sup>3</sup> /h)                       | 335                      |    |         |   |      |   |
| Electric power input (W)                                    | 155                      |    |         |   |      |   |
| Reference flow rate (m <sup>3</sup> /s)                     | 0.064                    |    |         |   |      |   |
| Reference pressure difference (Pa)                          | 50                       |    |         |   |      |   |
| Specific power input (SPI) (W/(m <sup>3</sup> /h))          | 0.265                    |    |         |   |      |   |
| Control typology  | Local demand control     |    |         |   |      |   |
| Maximum internal leakage rates (%)                          | 2.7                      |    |         |   |      |   |
| Maximum external leakage rates (%)                          | 2.7                      |    |         |   |      |   |
| Sound power level (dB(A))                                   | 40                       |    |         |   |      |   |
| Declared typology   | RVU BVU                  |    |         |   |      |   |
| The annual electricity consumption (AEC) (kWh/a)            | Cold                     |    | Average |   | Warm |   |
|   | 722                      |    | 185     |   | 140  |   |
| The annual heating saved (AHS) (kWh/a)                      | Cold                     |    | Average |   | Warm |   |
|   | 8776                     |    | 4486    |   | 2029 |   |




## Accessories

### Other accessories


| Name             | Photo | Description     |
|------------------|-------|-----------------|
| FP 484x178x48 G4 |       | G4 panel filter |

|                  |   |                 |
|------------------|---|-----------------|
| FP 484x178x48 F7 |  | F7 panel filter |
|------------------|---|-----------------|



### Control Panels

| Name                      | Photo   | Description       |
|---------------------------|---|-------------------|
| <a href="#">S22</a>       |  | Control panels    |
| <a href="#">S22 Wi-Fi</a> |  | Control panels    |
| <a href="#">S25</a>       |  | LCD control panel |



### Humidity sensors



| Name                | Photo   | Description     |
|---------------------|---|-----------------|
| <a href="#">FS2</a> |  | Humidity sensor |

### CO2 sensors




| Name                 | Photo   | Description |
|----------------------|---|-------------|
| <a href="#">CD-1</a> |  | CO2 sensors |
| <a href="#">CD-2</a> |  | CO2 sensors |

### Electrical heaters


| Name                                  | Photo   | Description  |
|---------------------------------------|---|--|
| <a href="#">EVH 160-0.8-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">EVH 160-1.2-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |

|                                       |   |  |
|---------------------------------------|---|--|
| <a href="#">EVH 160-1.7-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |
| <a href="#">EVH 160-2.0-1 S21 V.2</a> |  | Electric duct preheater for heat exchanger freeze protection |


### For round ducts

| Name                        | Photo   | Description               |
|-----------------------------|---|---------------------------|
| <a href="#">SD 160/600</a>  |  | Silencers for round ducts |
| <a href="#">SD 160/900</a>  |  | Silencers for round ducts |
| <a href="#">SD 160/1200</a> |  | Silencers for round ducts |

### For round ducts

| Name                    | Photo   | Description                                   |
|-------------------------|---|---|
| <a href="#">VRV 160</a> |  | Backdraft dampers with spring for round ducts |
| <a href="#">VKA 160</a> |  | Air dampers for round ducts                   |

### Condensation drainage

| Name                 | Photo   | Description |
|----------------------|---|-------------|
| <a href="#">CP-2</a> |  | Drain pump  |

### Electric actuators

| Name                         | Photo   | Description        |
|------------------------------|---|--------------------|
| <a href="#">Belimo TF230</a> |  | Electric actuators |