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*designed to be different*

## Product specification Cosmo RCH and Cosmo Tunnel RCH *)

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|---|---|
| Model name | Cosmo RCH<br>Cosmo Tunnel RCH |
| Description | Cosmo: Very luxurious balanced flue build in fire with large frontal fire view . No visible frame. Wood fire with robust wood logs. Easy release glass window. Anti-reflective glass (Clear View) optionally.<br>Cosmo Tunnel: As Cosmo, but with two sided fire view (from front as well as from backside). Easy release window on *both* sides. |
| Purpose | Balanced flue fire |
| Type of appliance | Build in fire |
| Type of combustion | Closed combustion C11/C31/C91, with Powervent: C12/C32. |
| Gas | Natural gas G20, G25.3 or G25. |
| Flame picture | Yellow log fire |
| Sizes | Cosmo         BxHxD = 1988x1307 … 1357x709mm<br>Cosmo Tunnel   BxHxD = 1988x1307 … 1357x706mm<br>Height including flue spigot<br>Depth excluding build in frame(s)<br>Build in frame: BXH = 1839x833mm<br>Bottom of build in frame: min. 186mm. |
| Flue spigot | Ø200/130mm, top side in the middle |
| Removal of combustion products | Natural draught. Powervent® possible.<br>Roof terminal, without bends:   - reduce to Ø150/100 after 1st meter vertical<br>Roof terminal with bends:     - reduce to  Ø150/100 after last bend |

| Flueing possibilities with wall terminal | gas | min. vertical | max. horizont | notes |
|---|---|---|---|---|
| | natural gas | 0.8m | 6m | |
| | propane | n.a. | n.a. | |

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| Removal of heat | Natural convection. Breast ventilation mandatory (>520cm$^2$, e.g.2x Lux Lignum). |
| Control | Honeywell ESYS-02 system.<br>Control options: manual or thermostatic.<br>Clock program (week program) with 6 switch points per day. |
| Operation | - Radiographic remote control 866MHz, battery operated (2x battery AA). Two way communication wit appliance. Reading out of fault codes.<br>  Fault history can be reaqd out with special (orange) remote.<br>- Wireless via tablet (Android or iOS) + app and WIFI or house management system.<br>- Wired, with house management system |
| Ignition | Electronic ignition on main burner. No pilot burner. |
| Electrical connection | 230VAC with earth connection |
| Gas connection | Ø15 fitting with compression nut (adapter 3/8" male/Ø15 supplied in carton box) |
| Safety | - Ionisation detection. Separate ionisation electrode not only checks ignition, but also cross lighting of main burner.<br>- Explosion hatches |
| Accessories and options | - PowerVent<br>- Communication module (needed for external operation via tablet or domotics)<br>- Clear View glass<br>- Ventilation elements (Lux Lignum) |
| Weight | ca. 380kg |
| Including | Control hatch, wood logs, remote control, batteries, socket wrench no 8 (window glass), connector 3/8" male/Ø15 compression nut, and mains wire + plug (EU and UK) L=150cm |
| Special features | - The appliance can be operated with an app on tablet (Android or iOS) or smart phone.<br>- Burner system with seven burners, partly integrated in the wood logs ((Vario-burner®) for a spectacular flame picture<br>- Eco-Wave-technics (programmable flame height as function of the time) for    lower gas consumption and more lively flames.<br>- Easy release system (glass window openable with lever. Window hinged. Window is easily removable, can be lifted out of the henges. For ease of cleaning and maintenance).<br>  Cosmo Tunnel: Easy release system on both sides! |

|  | - Appliance on castor wheels for easy transport. Adjustable feet in carton box.<br>- Four sided build in frame thickness 6mm, depth 70mm, powder coated, can be converted to a 3-sided build in frame by removing the bottom strip. A stone hearth (e.g.) can than continue till the glass.<br>- Maximum distance control hatch to the side of the appliance:<br>    - left    40cm<br>    - right   40cm |
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| CE-ID (PIN) | 0063BU3078 |

**\*) Consult installation manual for the details.**

| Gas type: | G25 | G25.3 | G20 | Unit |
|---|---|---|---|---|
| Maximum output | 15,7 | 15,7 | 16,3 | kW |
| Minimum output | 4,9 | 4,9 | 6,0 | kW |
| Input rating (Hs) | 21,5 | 21,5 | 22,2 | kW |
| Gas usage high | 2303 | 2303 | 2105 | l/h |
| Gas usage low | 738 | 738 | 836 | l/h |
| Fluegas Temperature (12m vertical or testflue EN613) | 364 | 364 | 371 | °C |
| $CO_2$ (12m vertical or testflue EN613) | 4,65 | 4,65 | 4,95 | % |
| Fluegas flow (12m vertical or testflue EN613) | 15,43 | 15,43 | 15,26 | gr/sec |
| Min. draught required | 5 | 5 | 5 | Pa |
| Efficiency class (acc to EN613) | 2 | 2 | 2 | |
| NOx class (acc to EN613) | 5 | 5 | 5 | |
| Efficiency (system efficiency) | 89,5 | 89,5 | 89,3 | % |
| Energy Efficiency Index | 89 | 89 | 89 | |
| Energie Efficiency Class | **A** | **A** | **A** | |

**Modification review**

| Date | Nature of modification |
|---|---|
| 23-04-2015 | New specification |
| 26-10-2017 | Update of gas technical specifications |
| 30-03-2018 | Powervent possible starting 01-04-2018 |
| 26-06-2018 | Update, a.o. max distance to control hatch added |
| 06-02-2019 | Conversion buil;di9n frame from 4S to 3S added. |
| 23-04-2019 | Type of combustion: for appliances with PowerVent C12/C32 added |
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