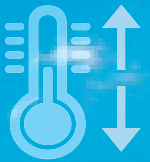




Your front row seat  
with fresh air guaranteed



# Rox HYD COMPACT LINE



The new compact range of ventilation systems from Rox:

**INSTALL, CONNECT POWER and AIR DUCT, DONE.**



# Clean air

## Our business since 1949

Rox-Klimatechnik GmbH, which was founded in 1949, is based in Weitefeld in Germany and specialises in the manufacture of indoor air and process air handling units and components. Rox is a reliable partner to design engineers, installers and operators, producing energy efficient indoor air and process air handling technology for every kind of application. It has now been almost 70 years since the production of the first Rox unit, which was also Germany's first central air handling unit. In the meantime, the company, its staff and its range of products have grown continuously through ongoing development. Today, Rox central air handling units represent proven quality, a comfortable indoor environment, hygienic air handling and active environmental protection.

### New to the range: HYD COMPACT LINE

The new, innovative HYD Compact Line air handling units are extremely space saving and have impressively high energy efficiency. Their integrated counterflow or crossflow heat exchangers achieve efficiency levels of over 90 %.

Ventilation is carried out via highly efficient EC technology with motor efficiency up to IE 5, while heating and cooling occurs via the integral heat pump. The fully wired air handling units are operated with the unit's built-in automation station, which includes a control panel. Commissioning at the factory enables quick and easy installation on site.





## HYD COMPACT LINE

- ✓ Low installed height
- ✓ Highly efficient technology
- ✓ Fully wired
- ✓ Flow rates up to 10,000 m<sup>3</sup>/h
- ✓ Integral heat pump
- ✓ Simple installation
- ✓ Supply air and extract air filtering

## HIGH PERFORMANCE

### on the smallest of footprints

The pre-configured solution, which is wired ready for connection, is used for controlled comfort ventilation with heat recovery in public buildings, restaurants, offices, schools and industry.

It meets all requirements arising from applicable regulations, standards and directives, and is weatherproof and hygienic. Filter changes are simple. Building management system interfaces can be achieved via various bus protocols, while remote diagnosis is also facilitated via a direct site-to-site connection.

# Data & facts

Below is an example of technical data for three systems with flow rates of up to 2600 m³/h and a cooling capacity of up to 12.4 kW. Extensions of up to 10,000 m³/h or more are straightforward. Operating statuses, unit drawings, etc. can be requested from "vertrieb@rox-online.de".

Compact Line performance data		System 03	System 02	System 01
Max. air flow	m³/h	880 m³/h	1760 m³/h	2600 m³/h
Cooling capacity at OT 35 °C	kW	4,5 kW	10,5 kW	12,4 kW
Heating output at OT -15 °C	kW	5.1 kW	10,7 kW	12,8 kW

Plate heat exchangers		System 03	System 02	System 01
Summer mode heat recovery rate   summer mode humidity recovery rate	%	78.5   78.5	73.1   73.1	75.9   75.9
Summer temperature IN/OUT humidity   summer humidity IN/OUT (HR)IIN (HE)	°C   %	32/27   40/52	32/38   40/52	32/27   40/51
Winter mode dry heat recovery rate   winter mode wet heat recovery rate	%	78.5   86	73.1   81	75.1   82.7
Winter temperature IN/OUT   winter humidity OUT (HR)IIN (HE)	°C   %	-16/15   90/8	-16/13   90/9	-16/13   90/8

Fans and motors (EC)		System 03	System 02	System 01
Supply air   extract air	pce	1   1	1   1	1   1
SUP external static pressure   ETA external static pressure	Pa	350   350	350   350	350   350
SUP and ETA air flow rate	m³/h	880   880	1760   1760	2600   2600
Unit intake sound power (Lw(A)5)   unit discharge sound power (Lw(A)6)	dB(A)	61   69	71   58	78   65

Electrical data for ventilation system		System 03	System 02	System 01
Ventilation system voltage supply (separate)	V   Ph   Hz	230   1   50	400   3   50	400   3   50
Min. slow blow fuse without options	A	25	25	25
SUP and ETA fan rated input power	kW	0.5   0.5	1.05   1.05	1.23   1.23
SUP and ETA fan rated current	A	2.2   2.2	1.6   1.6	1.9   1.9
Max. ventilation system operating current without options	A	~ 22	~ 22	~ 22

Electrical data for heat pump		System 03	System 02	System 01
Cooling unit voltage supply (separate)	V   Ph   Hz	230   1   50	400   3   50	400   3   50
Slow blow fuse   observe VDE and local regulations	A	16	25	25
Cooling   heating input power	kW	1.86   2.04	2.78   2.66	4.45   3.88
Cooling   heating operating current	A	8.09   8.94	3.69   3.74	4.92   4.91

Dimensions   filters		System 03	System 02	System 01
Weatherproof unit design RAL 9002 for outdoor installation, dim. H x L x D	mm	953x4569x1522	957x4619x1522	1021x4619x1522
Total weight	kg	1600	1665	1665
Aluminium louvre dampers leakage class 2 acc. to EN 1751	number	2	2	2
SUP bag filter class ePM1 55 % inclusive	pce	1	1	1
SUP bag filter class ePM10 60 % inclusive	pce	1	1	1







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