

- Residential
- Counterflow
- R-COVERY
- $Q_v \leq 600 \text{ m}^3/\text{h}$
- Price available on request
- Heat recovery unit with efficiency  $\geq 85\%$



## Heat recovery units system D $\leq 600 \text{ m}^3/\text{h}$ type CHR PRO

Heat recovery unit system D with high efficiency for **projects**  $\leq 600 \text{ m}^3/\text{h}$ .

### Brand

- R-COVERY

### Application

- For projects
- Ventilation with heat recovery for domestic and non-residential applications where high efficiency is required
- Applicable for flow rates up to  $600 \text{ m}^3/\text{h}$
- Available in different configurations
- Suitable for indoor installation in a frost-free area

### Specifications

- Modulating electric preheater, 0 to 100%, with air guides
- 'Bypass boost' function
- Fireplace function
- Vibration-free mounting
- Supply voltage: 230Vac
- Devices can be connected in cascade (up to 10 pieces) via eBus
- ModBus communication
- Filter wizard for end user

### Composition

- EC motors with constant flow (EBM) equipped with integrated anemometer
- TFT touchscreen with integrated 4-position controller and wizard for maintenance and delivery
- Supplied ball siphon with 32 mm connection
- Automatic bypass valve (100%) with actuator, equipped with air guides and EPDM sealing
- Housing made of epoxy-coated steel sheet (RAL 9016)
- Inner part made of EPS foam parts without thermal bridges
- Round connections of diameter 160mm
- Standard 2x ISO coarse 60% filters
- Easy maintenance: all components are removable from the front of the device

**Fan**

- Energy-saving EC direct current EBM motors
- Constant flow regulation
- Integrated anemometer for fast and accurate measurement, even at low flow rates
- Integrated into an energy efficient volute

**Exchanger**

- Brand: Holmak TST35
- Made from PETG
- Large surface area for higher efficiency, reduced resistance and less noise
- Equipped with guides with EPDM seal

**Controller**

- eBus
- ModBus
- RJ12
- USB for RF-FLR dongle
- 24Vdc OUT signal

	Certification			
	Flow rate max. m³/h	Capacity/motor max. W	h <sub>tepb</sub> min. %	EN13141-7 Sfp W(m³/h)
CHR 225 PRO	225	42W	85	0,17
CHR 325 PRO	322	59W	86	0,15
CHR 400 PRO	401	77W	85	0,17
CHR 600 PRO	594	143W	84	0,25

**Accessories**

- 4-position switch with filter indication, type **CVREN 4**
- Wired touch-control with weekly timer, type **TC E-BUS**
- Wireless remote controls en sensors, type **FLR-RF**
- Humidity sensor (ducted sensor), type **HRT REN**
- Wired CO<sub>2</sub> sensors (up to 4 pieces) via eBus connection, type **CO2 REN E-BUS**
- Bi-zonal demand ventilation based on time or CO<sub>2</sub>, type **DCV**
- Replacement filters, type **FS FLR**
- Mounting frame, type **MC FLR**
- Additional external pre- or post-heating battery, type **CVR-VNF**

**Order example****CHR 325 PRO R**

Explanation

**CHR** = Cairox Heat Recovery unit, type of heat recovery unit**325** = maximum air flow in m³/h**PRO** = for projects**R** = right configuration (**L** = left configuration)

Technical data					
		CHR 225 PRO	CHR 325 PRO	CHR 400 PRO	CHR 600 PRO
Supply voltage	[V/Hz]	230V/50Hz			
Dimensions (W x H x D)	[mm]	600 x 650 x 650	750 x 650 x 560	750 x 650 x 560	800 x 850 x 661
Duct diameter	[mm]	4 x 125	4 x 160	4 x 180	4 x 200
Ø connections of condensate drain	[mm]	32			
Weight	[kg]	29	37	37	49
Filter as standard (ISO16890)		ISO COARSE 60% (G4)			

Technical data										
CHR 225 PRO										
Q [m³/h]	40		50		100		150		225	
Ps [Pa]	3	6	5	10	20	40	44	89	100	200
P [W]	7.9	8.2	8	8.5	13.2	15.9	26.2	34	61.5	82
[A]	0.1	0.11	0.1	0.1	0.13	0.15	0.22	0.29	0.48	0.63
CHR 325 PRO										
[m³/h]	50		100		150		250		325	
[Pa]	2	5	9	19	21	43	59	118	100	200
[W]	6.1	6.4	8.2	9.7	15.4	19.4	46.9	61.4	87.2	116.5
[A]	0.08	0.08	0.09	0.11	0.16	0.19	0.42	0.53	0.73	0.94
CHR 400 PRO										
[m³/h]	50		100		200		300		400	
[Pa]	2	3	6	13	25	50	56	113	100	200
[W]	4.4	4.6	5.3	6.4	22.7	28.5	62.6	78.9	126.6	160.8
[A]	0.06	0.06	0.07	0.08	0.25	0.31	0.58	0.71	1.01	1.26
CHR 600 PRO										
[m³/h]	100		150		300		500		600	
[Pa]	3	6	6	13	25	50	69	139	100	188
[W]	12.1	12.5	17.2	18.3	44.5	54.2	166.6	203.1	250	288
[A]	0.18	0.19	0.23	0.24	0.46	0.55	1.45	1.71	2.11	2.3

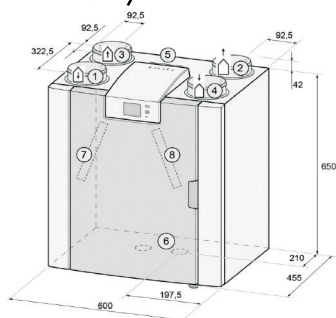
Sound data								
CHR 225 PRO								
Q [m³/h]	50	100	100	150	150	225	225	
Ps [Pa]	25	25	50	50	100	100	150	
Lwa 2 [dB(A)]	28	31	33.5	38.5	40.5	45.5	47	
Lwa 5 [dB(A)]	<30	<34.5	<36.5	44	43	47.5	48.5	
Lwa 6 [dB(A)]	43.5	48.5	50.5	55	57.5	62.5	64.5	
CHR 325 PRO								
Q [m³/h]	100	150	150	200	200	250	250	325
Ps [Pa]	25	25	50	50	100	100	150	150
Lwa 2 [dB(A)]	27	34	35	40	41	46	46	51
Lwa 5 [dB(A)]	32	40	38	46	44	49	49	55
Lwa 6 [dB(A)]	44	49	51	55	57	61	62	69
CHR 400 PRO								
Q [m³/h]	150	250	350	400				
Ps [Pa]	25	50	100	100				
Lwa 2 [dB(A)]	37	43.5	52	55				
Lwa 5 [dB(A)]	43.5	46.5	51	61				
Lwa 6 [dB(A)]	50	58	69.5	71				
CHR 600 PRO								
Q [m³/h]	150	300	300	500	500	600	600	
Ps [Pa]	25	50	100	100	150	100	150	
Lwa 2 [dB(A)]	37.5	45.5	46	56	54.5	56.5	56.5	
Lwa 5 [dB(A)]	35	45	42.5	51	52	53.5	56.5	
Lwa 6 [dB(A)]	43.5	53	53.5	60.5	61.5	62	66.6	

$I_1$  = Power consumption, excluding preheater

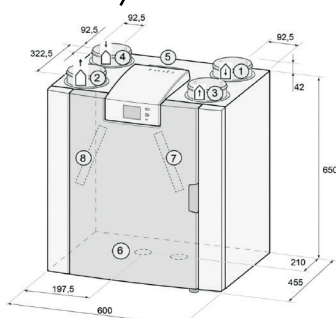
$I_2$  = Power consumption, including preheater

- Lwa 2 = Ambient sound power
- Lwa 5 = Sound power on the suction side
- Lwa 6 = Sound power on the discharge side

225 4/0 L BE

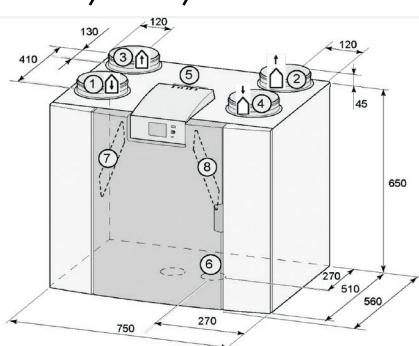


225 4/0 R BE

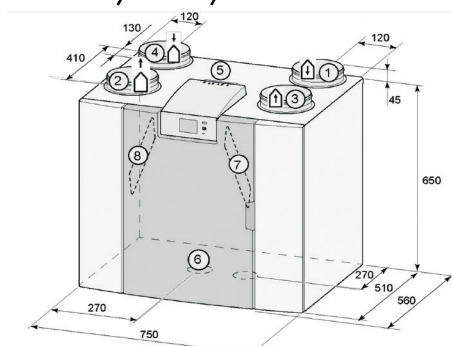


- 1 = Naar woning
- 2 = Naar buiten
- 3 = Van woning
- 4 = Van buiten
- 5 = Elektrische aansluitingen
- 6 = Sifonaansluiting
- 7 = Afvoerluchtfilter
- 8 = Toevoerluchtfilter

325/400 4/0 L BE

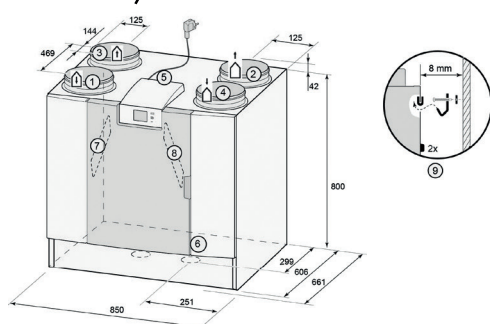


325/400 4/0 R BE



- 1 = Vers l'habitation
- 2 = Vers l'extérieur
- 3 = Venant de l'habitation
- 4 = Venant de l'extérieur
- 5 = Raccordements électriques
- 6 = Raccordement du siphon
- 7 = Filtre d'évacuation d'air
- 8 = Filtre d'amenée d'air

600 4/0 L BE



600 4/0 R BE

