

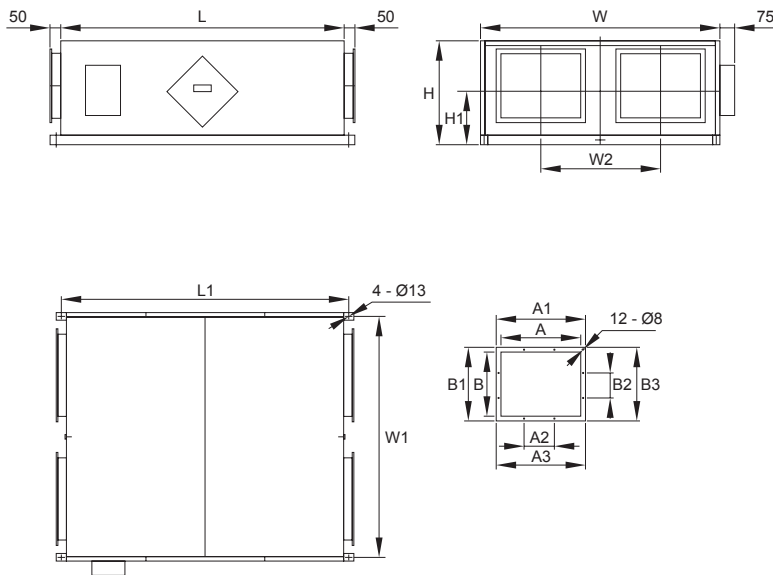
## Energy recovery ventilation system type CHRU-TGX

- They are designed to control air quality in ventilation systems for achieving optimal comfort in rooms like shops, offices, restaurants and more.
- Airflow rate: 1000 - 3000 m<sup>3</sup> / h

### Characteristics

- Ventilation - supplies fresh air and extracts stagnant air to improve the microclimate
- Energy recovery - the indoor heat exchanger uses the heat from the exhaust indoor air to heat or cool the incoming fresh air to a temperature close to the room temperature.
- Heat recovery with an efficiency up to 80%
- Low noise – equipped with a fan designed for quiet operation
- Ventilation and air filtration - the built-in filter purifies the air removing dust and small particles
- Variety of series and models - the wide product range provides flexible application in different buildings and premises
- The set includes a controller (standard model **10307** and optional model **LH-12100**)

		Technical data				
Model		CHRU-TGX 1500	CHRU-TGX 2000	CHRU-TGX 2500	CHRU-TGX 3000	
Airflow (low/medium/high)	m <sup>3</sup> /h	1000/1500/1500	1200/2000/2000	2000/2500/2500	2500/3000/3000	
External pressure (low/medium/high)	Pa	80/130/160	120/130/170	140/180/200	150/180/210	
Enthalpy efficiency	Heating	%	74/70/70	73/71/71	72/70/70	71/69/69
	Cooling	%	69/66/66	65/62/62	64/61/61	63/60/60
Temperature efficiency	%	74/71/71	74/71/71	73/70/70	73/70/70	
Noise	dB(A)	46/49/51	49/51/53	50/52/55	51/54/57	
Power Supply		220V / 1Ph / 50Hz				
Input Power	W	485/740/785	650/980/1020	940/1250/1300	1400/1870/1950	
Filter class		G4				
Control	Standard	Yes (7-Day Time-clock)				
	BMS (Modus)	Yes				
Fan type		AC Fan Motors				
Fan speeds (supply)		3 Speeds Individual Control				
Fan speeds (exhaust)		3 Speeds Individual Control				
Defrost		Yes (Automatic with adjustable range)				
CO <sub>2</sub> Control		Optional controller available (On / Off control with adjustable range)				
Weight	kg	110	112	130	142	
Dimensions	length x width x height	mm	1526 x 1200 x 510	1526 x 1200 x 510	1700 x 1400 x 590	1800 x 1500 x 660
Duct size		mm	400 x 320	400 x 320	500 x 350	500 x 350



	Dimensions															
	L [mm]	L1 [mm]	W [mm]	W1 [mm]	W2 [mm]	H [mm]	H1 [mm]	A [mm]	A1 [mm]	A2 [mm]	A3 [mm]	B [mm]	B1 [mm]	B2 [mm]	B3 [mm]	
CHRU-TGX 1500	1426	1476	1200	1170	600	510	290	400	450	145	425	320	370	115	345	
CHRU-TGX 2000	1426	1476	1200	1170	600	510	290	400	450	145	425	320	370	115	345	
CHRU-TGX 2500	1700	1750	1400	1370	700	590	345	500	550	175	525	350	400	125	375	
CHRU-TGX 3000	1800	1850	1500	1470	700	660	415	500	550	175	525	350	400	125	375	

**Controller**



■ 10307



■ LH-12100

Controller type	10307	LH-12100
Temperature display	OA/RA/SA/FR temp.	OA/RA/SA/FR temp.
Speed selection	[yes]	[yes]
Weekly timer	[yes]	[yes]
External ON/OFF	[yes]	[yes]
Comfortable heater control	[yes]	[yes]
Defrosting	[yes]	[yes]
CO2 control	[yes]	[yes]
Filter alarm	[yes]	[yes]
Fault alarm	[yes]	[yes]
Data memory	[yes]	[yes]
Night free cooling	[yes]	[yes]
BMS integration	[yes]	[yes]
Humidity control	[no]	[yes]
Defrosting heater control	[yes]	[yes]
Working condition monitor	[yes]	[yes]



## Energy recovery ventilation system type CHRU-TF

- They are designed to control air quality in ventilation systems for achieving optimal comfort in rooms like shops, offices, restaurants and more.
- Airflow rate: 100 - 1000 m<sup>3</sup> / h

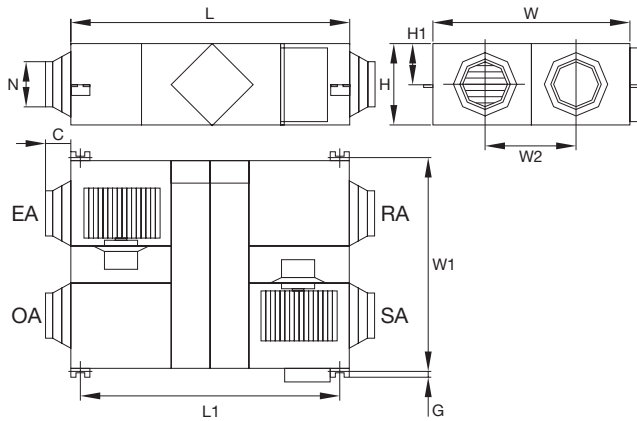
### Characteristics

- Ventilation - supplies fresh air and extracts stagnant air to improve the microclimate
- Energy recovery - the indoor heat exchanger uses the heat from the exhaust indoor air to heat or cool the incoming fresh air to a temperature close to the room temperature.

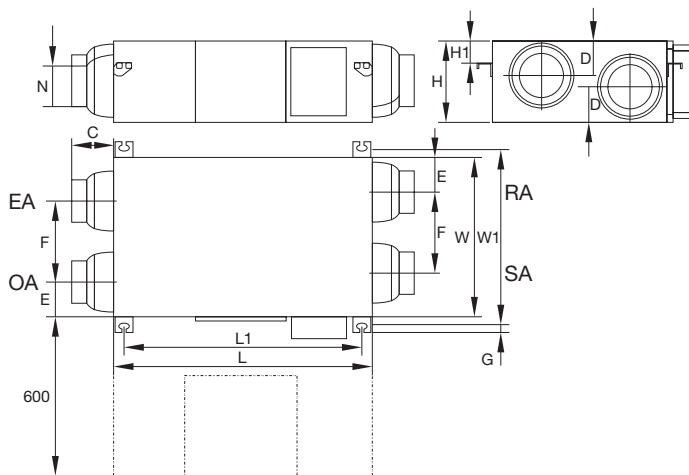
Heat recovery with an efficiency up to 82%

- Low noise – equipped with a fan designed for quiet operation
- Ventilation and air filtration - the built-in filter purifies the air removing dust and small particles
- Variety of series and models - the wide product range provides flexible application in different buildings and premises
- The set includes a controller (standard model **10307** and optional model **LH-12100**)

		Technical data							
Model		CHRU-TF 150	CHRU-TF 250	CHRU-TF 350	CHRU-TF 500	CHRU-TF 650	CHRU-TF 800	CHRU-TF 1000	
Airflow (low/medium/high)		m <sup>3</sup> /h	100/150/150	200/250/250	300/350/350	400/500/500	550/650/650	680/800/800	840/1000/1000
External pressure (low/medium/high)		Pa	75/90/100	100/120/125	100/110/120	110/130/140	110/150/170	110/120/170	100/120/180
Enthalpy efficiency	Heating	%	70/63/63	73/65/65	73/65/65	75/67/67	71/65/65	73/65/65	72/62/62
	Cooling	%	65/60/60	71/62/62	70/62/62	72/63/63	67/60/60	71/63/63	68/60/60
Temperature efficiency		%	80/75/75	81/73/73	82/74/74	81/76/76	82/74/74	80/74/74	80/76/76
Noise		dB (A)	25/30/31.5	27/34/34.5	31/37/37.5	29/35/39	37/40/43	37/40/43	36/42/44
Power Supply		220V / 1Ph / 50Hz							
Input Power		W	105	117	150	200	355	585	690
Filter class		G3							
Control	Standard	Yes (7-Day Time-clock)							
	BMS (Modus)	Yes							
Fan type		AC Fan Motors							
Fan speeds (supply)		3 Speeds Individual Control							
Fan speeds (exhaust)		3 Speeds Individual Control							
Defrost		Yes (Automatic with adjustable range)							
CO2 Control		Optional controller available (On / Off control with adjustable range)							
Weight		kg	23	25	31	36	60	60	79
Dimensions	length x width x height	mm	666 x 580 x 264	744 x 599 x 270	744 x 804 x 270	824 x 904 x 270	1116 x 884 x 388	1126 x 834 x 388	1129 x 1216 x 388
	Duct size	mm	Ø150	Ø150	Ø150	Ø200	Ø250	Ø250	Ø250



■ CHRU-TF 150 - CHRU-TF 650



■ CHRU-TF 800 - CHRU-TF 1000

	Dimensions											
	L [mm]	L1 [mm]	W [mm]	W1 [mm]	W2 [mm]	H [mm]	H1 [mm]	C [mm]	G [mm]		N [mm]	
CHRU-TF 150	666	725	580	510	290	264	20	100	19		Ø144	
CHRU-TF 250	744	675	599	657	315	270	111	100	19		Ø144	
CHRU-TF 350	744	675	804	860	450	270	111	100	19		Ø144	
CHRU-TF 500	824	754	904	960	500	270	111	107	19		Ø194	
CHRU-TF 650	1116	1045	884	940	428	388	170	85	19		Ø242	
	L [mm]	L1 [mm]	W [mm]	W1 [mm]	H [mm]	H1 [mm]	N [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
CHRU-TF 800	1126	1056	834	891	388	169	Ø242	86	157	152	436	21
CHRU-TF 1000	1129	1060	1216	1273	388	171	Ø242	86	147	152	621	21

**Controller**



■ 10307



■ LH-12100

## Heat recovery units

Controller type	10307	LH-12100
Temperature display	OA/RA/SA/FR temp.	OA/RA/SA/FR temp.
Speed selection	[yes]	[yes]
Weekly timer	[yes]	[yes]
External ON/OFF	[yes]	[yes]
Comfortable heater control	[yes]	[yes]
Defrosting	[yes]	[yes]
CO2 control	[yes]	[yes]
Filter alarm	[yes]	[yes]
Fault alarm	[yes]	[yes]
Data memory	[yes]	[yes]
Night free cooling	[yes]	[yes]
BMS integration	[yes]	[yes]
Humidity control	[no]	[yes]
Defrosting heater control	[yes]	[yes]
Working condition monitor	[yes]	[yes]



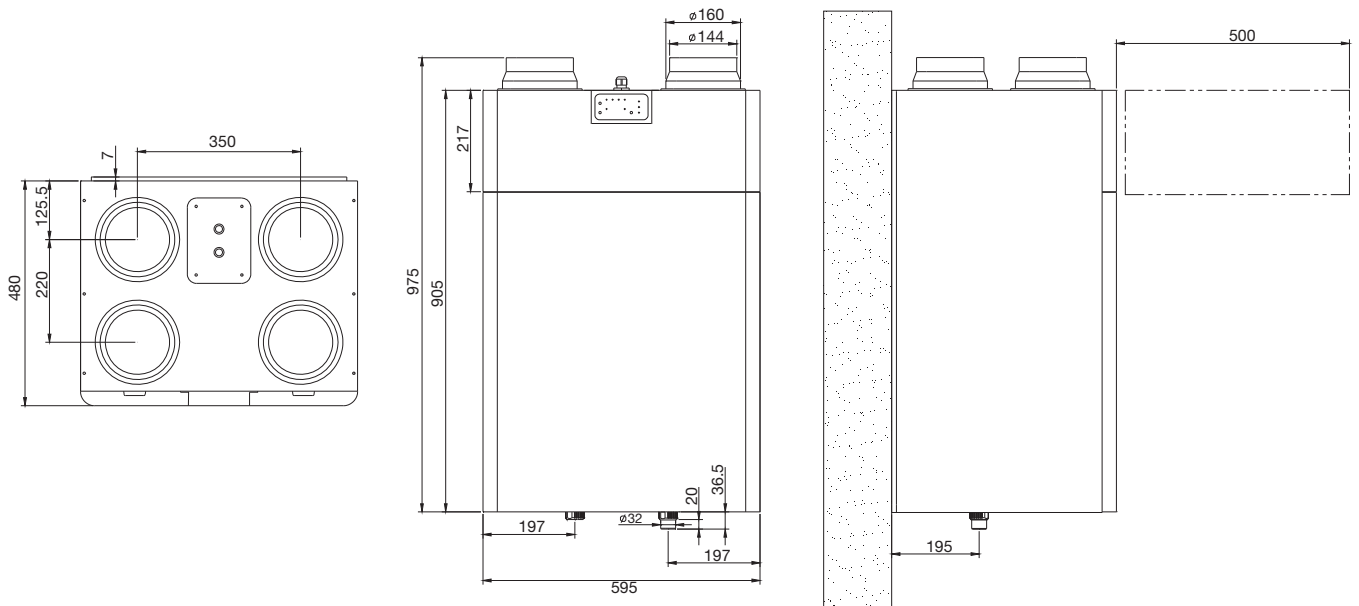
## Heat recovery ventilator type CHRU-V

- They are designed to control air quality in ventilation systems for achieving optimal comfort in rooms like shops, offices, restaurants and more.
- Airflow rate: 150 - 2000 m<sup>3</sup> / h

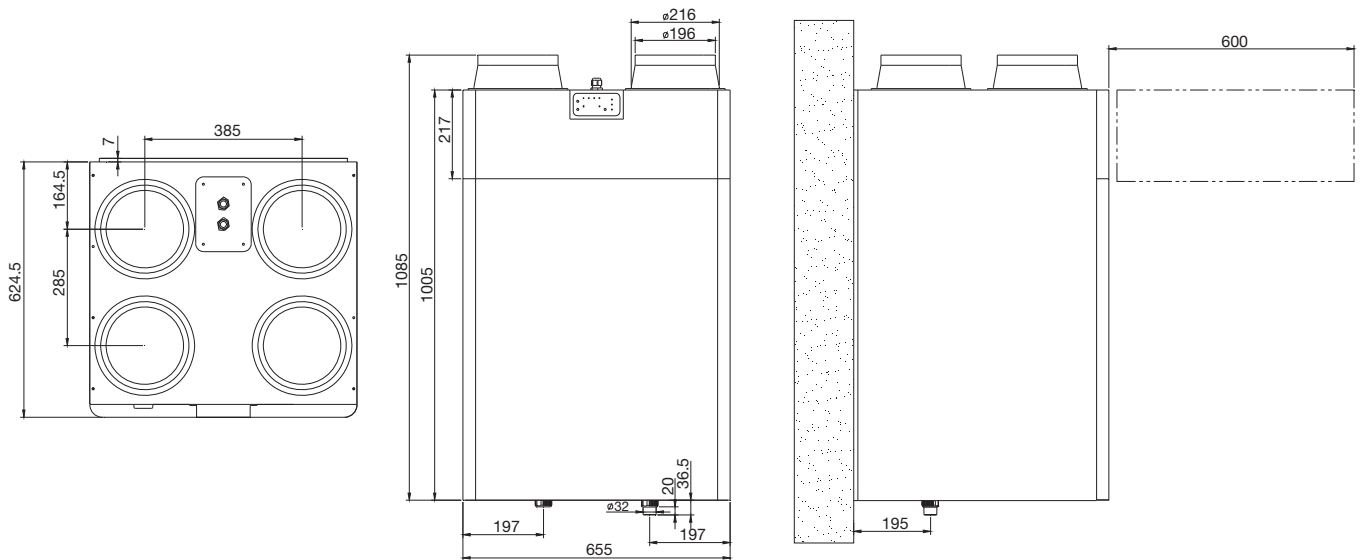
### Characteristics

- Energy saving EC motor, 4 speeds control
- Ventilation - supplies fresh air and extracts stagnant air to improve the microclimate
- Ventilation and air filtration - the built-in filter purifies the air removing dust and small particles. G4+F7 filter (optional)
- Energy recovery - the indoor heat exchanger uses the heat from the exhaust indoor air to heat or cool the incoming fresh air to a temperature close to the room temperature.
- Heat recovery with an efficiency up to 95%
- Double filter alarm, timer alarm or different pressure gauge alarm available
- High efficiency enthalpy heat recovery, more comfortable indoor climate
- Intelligent control system, optional CO<sub>2</sub> and humidity control function and external control
- Auto bypass, intelligent controlled by outdoor temperature
- Variety of series and models - the wide product range provides flexible application in different buildings and premises
- Integrated controller and option controller model **HDK-CK 50**

Technical data					
Model		CHRU-V 250T	CHRU-V 350T	CHRU-V 500T	
Airflow	m <sup>3</sup> /h	250	350	500	
External pressure	Pa	130	150	160	
Temperature efficiency	%	85	85	85	
Maximum temperature efficiency	%	95	95	95	
Noise	dB(A)	35	37	39	
Power Supply		230V / 50Hz			
Input Power	W	170	320	480	
Filter class		G4+F7 optional			
Maximum current	A	1.5	2.4	3.2	
Operation limits	Standart	от -10 до 40°C			
	Equipped with pipeline heater	от -20 до 40°C			
Control	Standard	Yes (7-Day Time-clock)			
	BMS (Modus)	Yes (7-Day Time-clock)			
Fan type		EC Fan Motors			
Fan speeds (supply)		4 Speeds			
Fan speeds (exhaust)		4 Speeds			
Bypass		Yes (Automatic with adjustable range)			
Defrost		Yes (Automatic with adjustable range)			
CO2 Control		Optional controller available (On / Off control with adjustable range)			
Weight	kg	40	40	50	
Dimensions	length x width x height	mm	595 x 480 x 975	595 x 480 x 975	655 x 624.5 x 1085
Duct diameter	mm	Ø160mm			



■ CHRU-V 250T / 350T



■ CHRU-V 500T



**Controller**



Controller type	HDK-CK-50
Temperature	temp.
Speed selection	[yes]
Weekly timer	[yes]
Bypass	Auto
Comfortable heater control	[yes]
Defrosting	[yes]
CO2 control	[yes]
Filter alarm	[yes]
Fault alarm	[yes]
Humidity control	[yes]
Defrosting heater control	[yes]
Power Consumption Statistics	[yes]