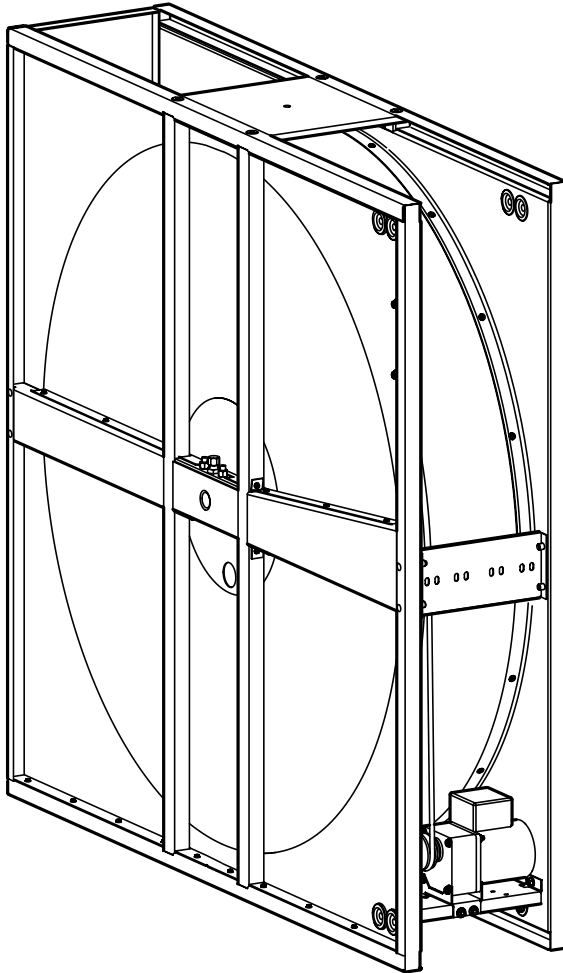


# ***ECONOVENT® - Rotary Heat Exchanger***

***Instructions for Constant Speed***

***PUMK 030-240 with Wiring Diagram***



# Constant Speed - Description, Control

## Drive Equipment for Constant Speed

Heat recovery is regulated by means of two-position motor operation (on/off control).

The electric motor with drive pulley and drive belt are included in the supply.

Unit size	Electric motor			
	1x(220-240V)		3x400V	
030-080	25 W	0,25 A	25 W	0,12 A
081-150	40 W	0,35 A	40 W	0,16 A
151-240	105 W	0,72 A	160 W	0,44 A

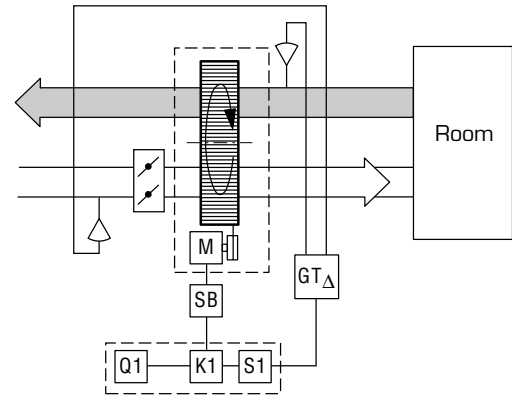


Fig. 1:2 Cooling energy recovery

## Control Example

The performance of the motor alone can be checked by lifting the drive belt off the drive pulley. Always check the direction of rotation.

The rotor shall rotate in such a direction that a point on the rotor surface in the extract air will move towards the purging sector.

### Designations

- GT1 = Temperature sensor
- M = Drive motor
- GTΔ = Differential thermostat
- Q1 = Main switch in the electrical equipment cubicle
- GX1 = Time switch
- S1 = Control switch
- K1 = Contactor
- SB = Safety isolating switch

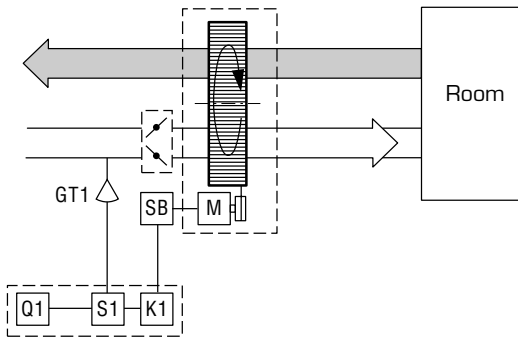


Fig. 1:1 Heat recovery

# Constant Speed – Wiring Diagram

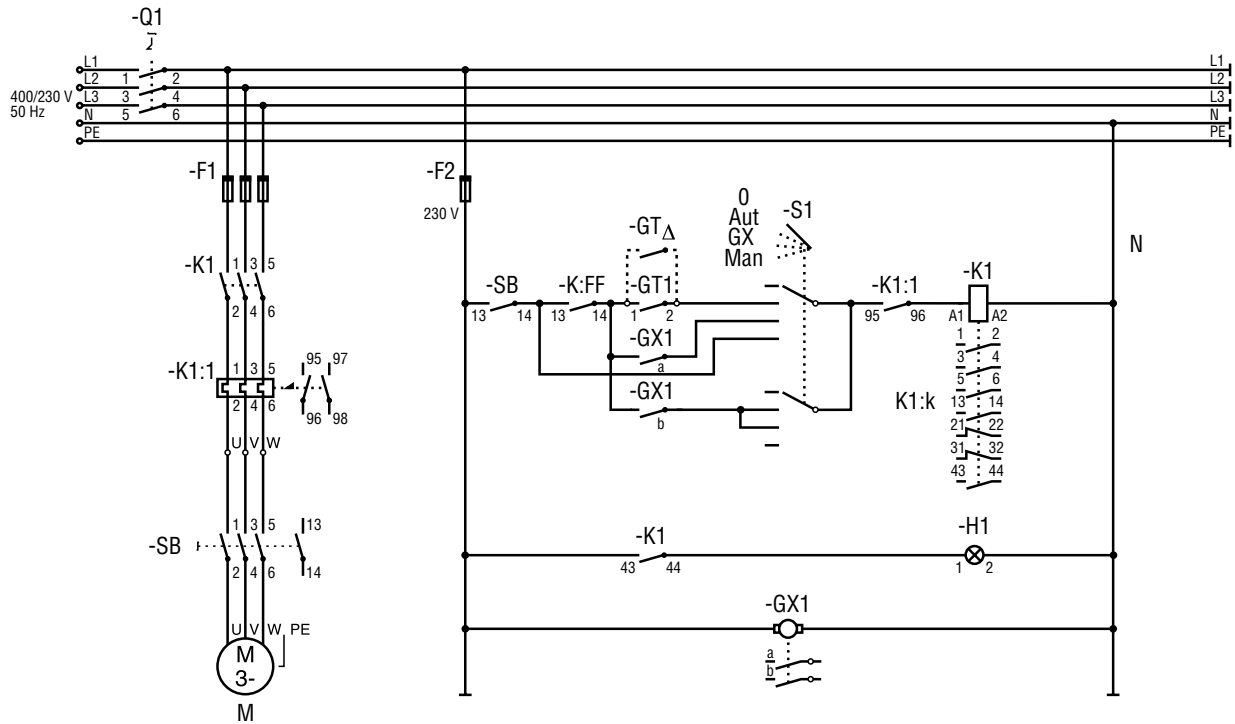
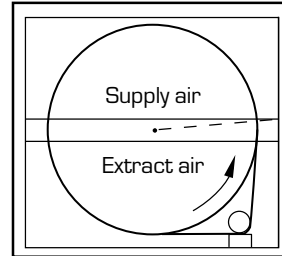
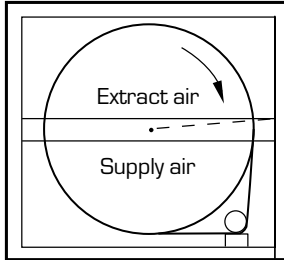


Fig. 2. Basic Wiring Diagram

## Designations

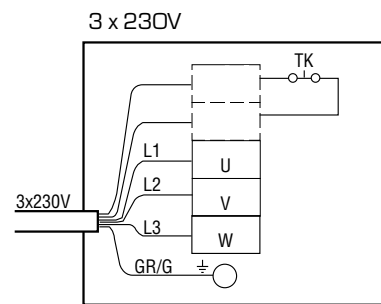
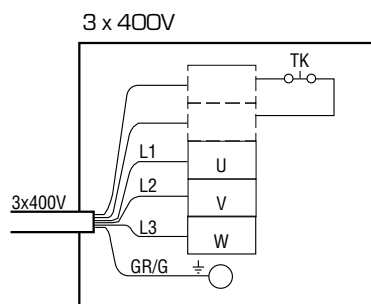
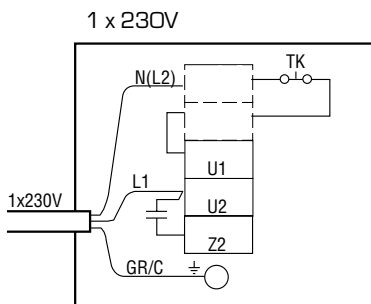
F1	Fuses	K1	Contactor WX
F2	Control circuit fuse	K1:1	Overcurrent protection
GT1	Thermostat	K1:K	Interlocking contact in K1. Used in systems with rotation monitor
GTΔ	Differential thermostat	M	Motor
GX1	Time switch, a = weekly switching disc (intermittent operation) b = 24-hour switching disc (purging operation)	Q1	Main switch in the electric equipment cubicle
H1	Signal lamp	S1	Control switch
K:FF	Interlocks e.g. extract air fan	SB	Safety isolating switch

# Constant speed - Electrical Connections

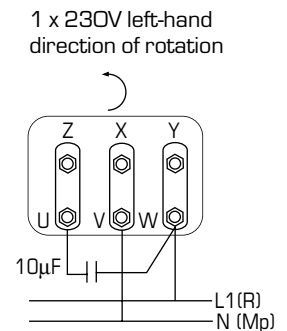
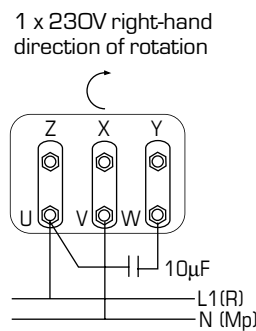
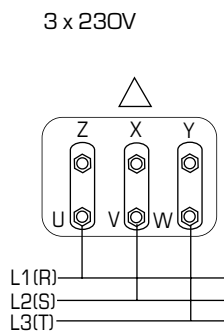
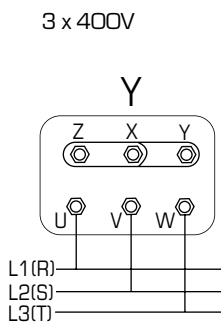


Wire the electrical connections to the appropriate motor terminals.

## PUMK 030-150 Panasonic



## PUMK 151-240 Groschopp



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