

ESBE circulation units for compact air-handling units

- Compact dimensions
- Refined controllability and flow control
- Ready To Go

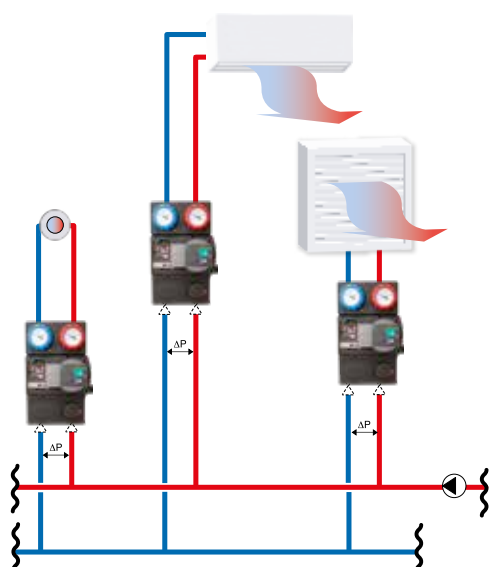
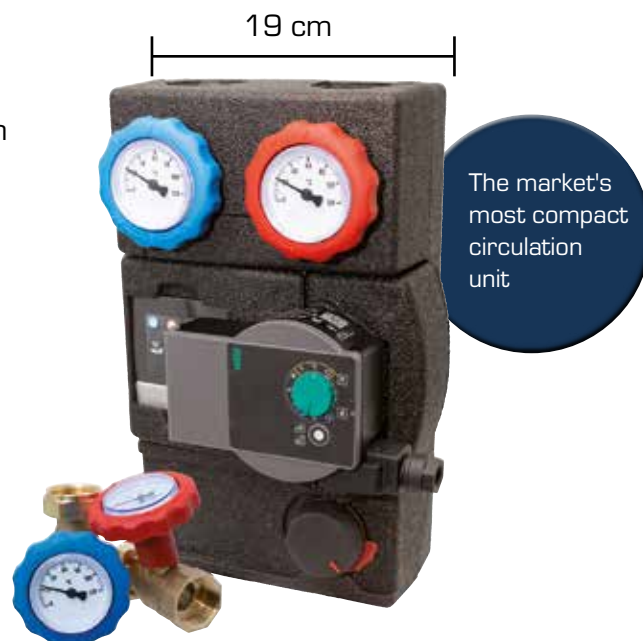


- Variable pressure operation from 5 kW to 150 kW (Δt 20°)

GRB300 2-way circulation unit

with constant secondary flow

- Optimal heat recovery when installed in ventilation air handling
- When using circulation unit GRB300 you can choose the controller or actuator according to your installation/application needs
- Kvs values are between 0,4 and 4.0.
- It will handle air volume up to 6,000 m³
- OEM -specific adaptations are available upon request the likes of Thermostatic bypass on primary side, for a quick heat up of secondary circuit for the AHU

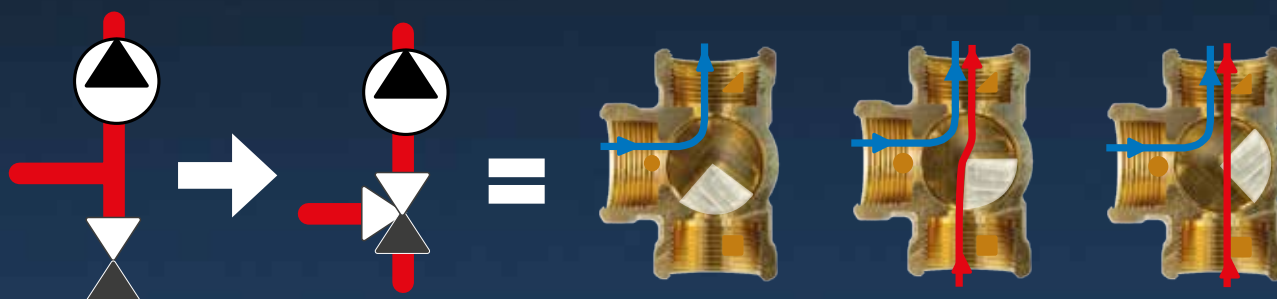


Small pump BIG advantages

- 2-way injection mode – no bypass is required, calculation is not necessary
- All in one high class insulation shell
- No extra pressure relief valve calculation needed, no setting necessary -> easy flow setting via pump
- Savings on electrical energy and better efficiency on heat energy as there is no pressure loss
- Possibility to choose suitable actuator

2-way function using a 3-way valve

The valve's unique construction enables integrated bypass, which gives the system a constant secondary flow.



GRA200

Circulation unit with mixing function

- Compact and slim dimensions
- Enhanced controllability and flow control when using progressive mixing valve
- High class insulation shell excellent for regular comfort cooling purposes
- Shut-off valves, with colour coded thermometers, available as an option



A circulation unit with a 3-point actuator which, in combination with the special valve regulation, provides unique stability, high controllability and precision when regulating.

Pretested and ready to use

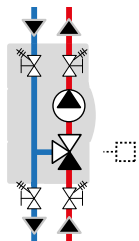
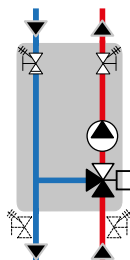
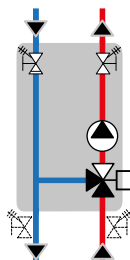
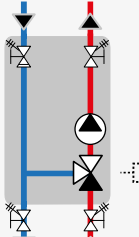
- Pre-installed, pre-setted and Ready-To-Go
- Delivered from factory with actuator 230V 3-point/24V, Proportional control signal
- Quick FIT – simple mounting of actuator - just one click!



GUIDE to choose the right unit

depending on DN, Kvs, Flow and Function.

Calculated with ΔT 30°C

Ref.	DN	Kvs m³/h	Primary flow l/s	Art.nr	Secondary max flow l/s	3-way valve	2-way valve	
GRB301 • Wilo Yonos PICO • Optional: 230V 3-point/ 24V, Prop	20	0,4	0,02 l/s - 0,04	61045100	0,43	-		
		0,63	0,03 l/s - 0,07	61045200	0,45			
		1,0	0,05 l/s - 0,11	61045300	0,52			
		1,6	0,08 l/s - 0,17	61045400	0,57			
		2,5	0,12 l/s - 0,27	61045500	0,62			
		4,0	0,19 l/s - 0,43	61045600	0,72			
GRA231 • Wilo PARA • 230V 3-point * • Optional: Shut-off valves	25	8	0,38 l/s - 0,86	61042500	0,65		-	
	32	12	0,58l/s - 1,3	61042600	0,93			
GRA232 • Grundfos UMP3 • 230V 3-point * • Optional: Shut-off valves	25	8	0,38 l/s - 0,86	61042700	0,65		-	
	32	12	0,58l/s - 1,3	61042800	0,84			
GRB2xx • Wilo 201 PARA • Optional: 230V 3-point/ 24V, Prop	25	4	0,19 l/s - 0,43	ON REQUEST	0,75	-		
		6,3	0,3 l/s - 0,68					
		8	0,38 l/s - 0,86					
	32	12	0,58 l/s - 1,3		0,94			
		17	0,52 l/s - 1,83					

* On request 24V 0-10V

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