TECHNICAL DATA SHEET COM 119 (05/2024)



#### PRODUCT: Flow 8500 40 Heat interface unit

The Flow 8500 heat interface unit features a twin-plate heat exchanger design, enabling indirect heat transfer. Flow 8500 40 offers DHW flowrates up to 15 l/min. All models offer 15 kW of central heating output and come with the option of a pre-fitted heat meter. The Flow 8500's versatility is further enhanced by the availability of various optional accessories, making it suitable for multiple situations.



- The Flow 8500 HIU product line includes models 40, 50, and 60
- BESA 2023 registered products
- Meets multiple VWART best practices\*
- Model variants available with or without heat meter
- DPCV included with all models
- Central heating capacity up to 15 kW
- Fast acting electronic control including return temperature limiter function
- Adapts for optimal performance in varying primary flow conditions
- Maximum differential pressure of 4.5bar
- Diehl Sharky-775 Ultrasonic, compact heat meter
- \* Use QR code to see all VWART best practice results.



Please use QR code for Full BESA 2023 results



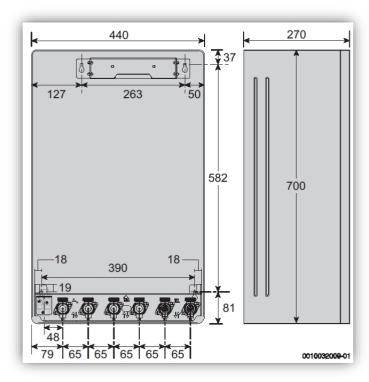


- Available with 22mm compression or ¾" flat face primary connections
- Built in, easy to access strainer
- Fully insulated separate EPC inner case enclosing all major components
- Top and bottom connections available via vertical plumb accessory
- Optional internal keyless filling loop
- Optional flushing bypass
- 230VAC auxiliary power for metering & billing equipment
- Easy internal pre-payment cut-off connection
- Optional internal over temp shut off valve for systems where primary flow is 70°C or more
- Electronic summer bypass as standard

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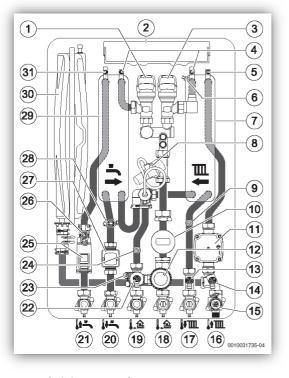


### Flow 8500 40 Product dimensions and descriptions:



Example 1 Pre-fix and unit dimensions

- 1) DHW Control valve
- 2) Control unit
- 3) Heating control valve
- 4) Primary circuit air vent valve
- 5) Heating circuit air vent valve
- 6) Return temperature sensor NTC for heating circuit (Primary)
- 7) Heating circuit plate heat exchanger (brazed stainless steel)
- 8) Differential pressure control valve (DPCV)
- 9) Flow temperature sensor NTC for heating circuit
- 10) Heat meter (optional)
- 11) Heating circulation pump
- 12) Thermal Bypass (accessory)
- 13) Heating circuit drain valve, Flow
- 14) Heating circuit drain valve, Return
- 15) Heating circuit pressure release valve
- 16) Heating circuit return connection (22mm compression)
- \* 3/4" Flat face option available
- \*\* Required if primary flow temperature is 70°C or greater



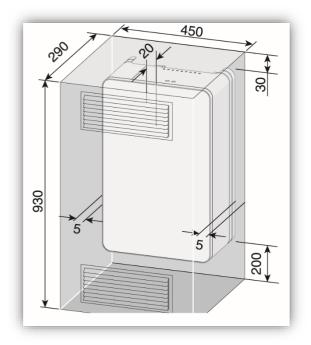
Example 2 Component layout

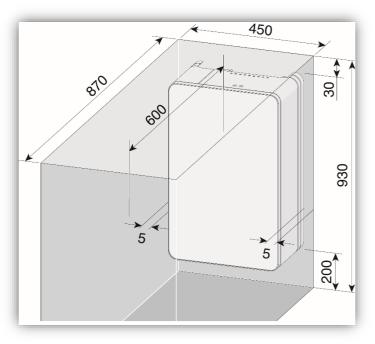
- 17) Heating circuit flow connection (22mm compression)
- 18) Primary circuit return connection (22mm compression) \*
- 19) Primary circuit flow connection (22mm compression)
- 20) Domestic hot water connection (22mm compression)
- 21) Cold water connection (22mm compression)
- 22) Primary circuit drain valve and strainer
- 23) Heat meter flow sensor connection (M10x1)
- 24) Flow temperature sensor NTC primary circuit
- 25) Flow turbine and limiter with strainer
- 26) DHW pressure-relief valve
- 27) Over temp shut off valve (Option) \*\*
- 28) NTC temperature sensor DHW
- 29) DHW plate heat exchanger (brazed stainless steel)
- 30) Expansion vessel
- 31) DHW air vent valve

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#### Flow 8500 40 clearances & ventilation:





Example 3 Minimum product clearances & ventilation

Example 4 Maintenance clearances

- Temperature within a cabinet must not exceed 35°C.
- Provide ventilation openings at the top and bottom of the cabinet that are at least 240cm<sup>2</sup>.
- Minimum maintenance clearance must be 600mm in front of the heat interface unit to allow for any maintenance that may be required.

#### Flow 8500 Heat meter:



### Diehl Sharky 775 Compact energy meter

- Ultrasonic heat meter
- Measuring accuracy EN 1434 MID Class 2
- 3.6 VDC D-cell battery, up to 16 years lifetime
- Wired and wireless M-Bus as standard
- Additional connectivity modules available

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### Flow 8500 40 Technical Data:

Technical data	Unit	
Minimum inlet pressure to achieve nominal DHW flow rate (with over temp shut off valve)	bar	1.2
Minimum inlet pressure to achieve nominal DHW flow rate (without over temp shut off valve)	bar	0.9
Maximum primary differential pressure with mechanical keep warm bypass	bar	4
Maximum primary differential pressure without mechanical keep warm bypass	bar	4.5
Heating output	kW	0.5 - 15
Maximum flow temperature of primary circuit	°C	90
Maximum flow temperature of heating circuit	°C	70
Maximum DHW temperature	°C	60
Maximum operating pressure	bar	10
pH value range, approx. (heating)	рН	6 – 9.5
Maximum DHW volumetric flow rate	l/min	15
Maximum volumetric flow rate of primary circuit (primary side head <50 kPa)	l/s	0.20
Maximum volumetric flow rate of primary circuit (primary side head <70 kPa)	l/s	0.23
Maximum ambient temperature	°C	35
Expansion vessel size	l l	5
Expansion vessel charge	bar	0.75
Electrical	Unit	
Electrical Supply	V / Hz	230 / 50
Appliance protection rating	IP	X4D
Maximum power consumption	W	50
Standby power consumption	W	3.1
Dimensions & Connections	Unit	
Height x width x depth	mm	700 x 440 x 270
Weight (Excluding packaging)		26
Weight (Including packaging)	kg	29
Cold inlet & DHW outlet (Compression)	mm	22
District heating flow & return (Compression) *	mm	22
Secondary heating flow & return (Compression)	mm	22
Pressure release valve	mm	15

<sup>\*</sup> ¾" Flat face option available

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### Flow 8500 40 Performance Data:

70 °C         9 l/min         6.7 l/min         16 °C         15 kPa         25           70 °C         12 l/min         9.0 l/min         17 °C         26 kPa         33           70 °C         15 l/min         11.4 l/min         18 °C         42 kPa         42           80 °C         9 l/min         5.7 l/min         15 °C         12 kPa         25           80 °C         12 l/min         7.6 l/min         16 °C         20 kPa         33           80 °C         15 l/min         9.6 l/min         17 °C         32 kPa         42           Flow 8500 40 - DHW Temperature 55°C *           60 °C         15 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         9 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         10.6 l/min         13.3 l/min         26 °C         70 kPa         32           70 °C         9 l/min         10.8 l/min         21 °C         37 kPa         37           70 °C         15 l/min         13.9 l/min         22 °C         69 kPa         47           80 °C         12 l/min         8.9 l/min         17 °C         15 kPa         38	Primary Temperature	DHW Flow rate	Primary flow rate	Primary return temp	Primary pressure drop	Output (kW)		
55 °C 9.6 l/min 13.3 l/min 27 °C 70 kPa 27 60 °C 9 l/min 9.1 l/min 20 °C 26 kPa 25 60 °C 12 l/min 13.2 l/min 24 °C 67 kPa 33 60 °C 12.1 l/min 13.3 l/min 24 °C 70 kPa 34 70 °C 9 l/min 6.7 l/min 16 °C 15 kPa 25 70 °C 12 l/min 9.0 l/min 17 °C 26 kPa 33 70 °C 15 l/min 11.4 l/min 18 °C 42 kPa 42 kPa 42 kPa 25 80 °C 12 l/min 9.0 l/min 17 °C 26 kPa 33 80 °C 15 l/min 9.6 l/min 16 °C 20 kPa 33 80 °C 15 l/min 9.6 l/min 17 °C 32 kPa 42	Flow 8500 40 - DHW Temperature 50°C *							
60 °C 9   min 9.1   min 20 °C 26 kPa 25 60 °C 12   min 13.2   min 24 °C 67 kPa 33 60 °C 12.1   min 13.3   min 24 °C 70 kPa 34   70 °C 9   min 6.7   min 16 °C 15 kPa 25   70 °C 12   min 14   min 18 °C 42 kPa 42   80 °C 15   min 13.3   min 16 °C 12 kPa 33   80 °C 15   min 13.3   min 15 °C 12 kPa 33   80 °C 15   min 14   min 15 °C 20 kPa 33   80 °C 15   min 15   min 15 °C 20 kPa 33   80 °C 15   min 15   min 17 °C 32 kPa 42   80 °C 15   min 17 °C 32 kPa 32   min 18 °C 42 kPa 25   min 18 °C 42 kPa 33   min 18 °C 42 kPa 33   min 18 °C 42 kPa 25   min 18 °C 42 kPa 33   min 18 °C 42 kPa 32 kPa 42   min 18 °C 42 kPa 44   min 18 °C 42 kPa 44   min 18 °C 44 kPa 4	55 °C	9 l/min	12.9 l/min	27 °C	61 kPa	25		
60 °C 12 l/min 13.2 l/min 24 °C 67 kPa 33 60 °C 12.1 l/min 13.3 l/min 24 °C 70 kPa 34 70 °C 9 l/min 6.7 l/min 16 °C 15 kPa 25 70 °C 12 l/min 9.0 l/min 17 °C 26 kPa 33 70 °C 15 l/min 11.4 l/min 18 °C 42 kPa 42 80 °C 9 l/min 7.6 l/min 16 °C 12 kPa 25 80 °C 12 l/min 9.6 l/min 16 °C 20 kPa 33 80 °C 15 l/min 9.6 l/min 16 °C 20 kPa 33 80 °C 15 l/min 9.6 l/min 17 °C 32 kPa 42 Flow 8500 40 - DHW Temperature 55°C *  60 °C 9 l/min 11.3 l/min 24 °C 42 kPa 28 60 °C 10.6 l/min 13.3 l/min 26 °C 70 kPa 32 70 °C 9 l/min 7.9 l/min 19 °C 20 kPa 37 70 °C 9 l/min 10.8 l/min 21 °C 37 kPa 37 70 °C 15 l/min 13.9 l/min 21 °C 37 kPa 37 70 °C 15 l/min 13.9 l/min 22 °C 69 kPa 47 80 °C 9 l/min 6.5 l/min 13.9 l/min 10 °C 27 kPa 38 80 °C 12 l/min 8.9 l/min 10 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 15 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 15 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 15 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 15 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 37 kPa 37 70 °C 39 l/min 11.4 l/min 20 °C 38 kPa 31 70 °C 99 l/min 10.3 l/min 27 °C 70 kPa 42 80 °C 99 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 99 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 99 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 99 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 99 l/min 10.4 l/min 20 °C 20 kPa 31 80 °C 99 l/min 10.4 l/min 20 °C 20 kPa 31 80 °C 99 l/min 10.4 l/min 20 °C 20 kPa 31 80 °C 99 l/min 10.4 l/min 20 °C 36 kPa 42	55 °C	9.6 l/min	13.3 l/min	27 °C	70 kPa	27		
60 °C       12.1 l/min       13.3 l/min       24 °C       70 kPa       34         70 °C       9 l/min       6.7 l/min       16 °C       15 kPa       25         70 °C       12 l/min       9.0 l/min       17 °C       26 kPa       33         70 °C       15 l/min       11.4 l/min       18 °C       42 kPa       42         80 °C       9 l/min       5.7 l/min       15 °C       12 kPa       25         80 °C       12 l/min       7.6 l/min       16 °C       20 kPa       33         80 °C       15 l/min       9.6 l/min       17 °C       32 kPa       42         Flow 8500 40 - DHW Temperature 55°C *         80 °C       9 l/min       11.3 l/min       24 °C       42 kPa       28         60 °C       9 l/min       11.3 l/min       24 °C       42 kPa       28         60 °C       9 l/min       13.3 l/min       26 °C       70 kPa       32         70 °C       9 l/min       10.8 l/min       21 °C       37 kPa       37         70 °C       15 l/min       13.9 l/min       22 °C       69 kPa       47         80 °C       15 l/min       8.9 l/min       17 °C       15 kPa       28 <td>60 °C</td> <td>9 l/min</td> <td>9.1 l/min</td> <td>20 °C</td> <td>26 kPa</td> <td>25</td>	60 °C	9 l/min	9.1 l/min	20 °C	26 kPa	25		
70 °C         9 l/min         6.7 l/min         16 °C         15 kPa         25           70 °C         12 l/min         9.0 l/min         17 °C         26 kPa         33           70 °C         15 l/min         11.4 l/min         18 °C         42 kPa         42           80 °C         9 l/min         5.7 l/min         15 °C         12 kPa         25           80 °C         12 l/min         7.6 l/min         16 °C         20 kPa         33           80 °C         15 l/min         9.6 l/min         17 °C         32 kPa         42           Flow 8500 40 - DHW Temperature 55°C *           60 °C         15 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         9 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         10.6 l/min         13.3 l/min         26 °C         70 kPa         32           70 °C         9 l/min         10.8 l/min         21 °C         37 kPa         37           70 °C         15 l/min         13.9 l/min         22 °C         69 kPa         47           80 °C         12 l/min         8.9 l/min         17 °C         15 kPa         38	60 °C	12 l/min	13.2 l/min	24 °C	67 kPa	33		
70 °C         12 l/min         9.0 l/min         17 °C         26 kPa         33           70 °C         15 l/min         11.4 l/min         18 °C         42 kPa         42           80 °C         9 l/min         5.7 l/min         15 °C         12 kPa         25           80 °C         12 l/min         7.6 l/min         16 °C         20 kPa         33           80 °C         15 l/min         9.6 l/min         17 °C         32 kPa         42           Flow 8500 40 - DHW Temperature 55°C *           **           60 °C         9 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         9 l/min         13.3 l/min         26 °C         70 kPa         32           70 °C         9 l/min         7.9 l/min         19 °C         20 kPa         28           70 °C         12 l/min         10.8 l/min         21 °C         69 kPa         47           80 °C         9 l/min         6.5 l/min         17 °C         15 kPa         28           80 °C         12 l/min         8.9 l/min         19 °C         27 kPa         37           80 °C         15 l/min         11.4 l/min	60 °C	12.1 l/min	13.3 l/min	24 °C	70 kPa	34		
70 °C         15 l/min         11.4 l/min         18 °C         42 kPa         42           80 °C         9 l/min         5.7 l/min         15 °C         12 kPa         25           80 °C         12 l/min         7.6 l/min         16 °C         20 kPa         33           80 °C         15 l/min         9.6 l/min         17 °C         32 kPa         42           Flow 8500 40 - DHW Temperature 55°C *           **           60 °C         9 l/min         11.3 l/min         24 °C         42 kPa         28           60 °C         9 l/min         13.3 l/min         26 °C         70 kPa         32           70 °C         9 l/min         7.9 l/min         19 °C         20 kPa         28           70 °C         12 l/min         10.8 l/min         21 °C         37 kPa         37           70 °C         15 l/min         13.9 l/min         22 °C         69 kPa         47           80 °C         9 l/min         6.5 l/min         17 °C         15 kPa         28           80 °C         15 l/min         11.4 l/min         20 °C         43 kPa         47           80 °C         15 l/min         12.0 l/min         20	70 °C	9 l/min	6.7 l/min	16 °C	15 kPa	25		
80 °C 9 1/min 5.7 1/min 15 °C 12 kPa 25 80 °C 12 1/min 7.6 1/min 16 °C 20 kPa 33 80 °C 15 1/min 9.6 1/min 17 °C 32 kPa 42  Flow 8500 40 - DHW Temperature 55°C *  60 °C 9 1/min 11.3 1/min 24 °C 42 kPa 28 60 °C 70 kPa 32 70 °C 9 1/min 10.8 1/min 19 °C 20 kPa 37 70 °C 15 1/min 13.9 1/min 22 °C 69 kPa 47 80 °C 9 1/min 6.5 1/min 17 °C 15 kPa 28 80 °C 12 1/min 8.9 1/min 19 °C 27 kPa 37 80 °C 15 1/min 11.4 1/min 20 °C 43 kPa 47 80 °C 15.9 1/min 12.0 1/min 12.0 1/min 21 °C 35 kPa 37 70 °C 15.9 1/min 10.8 1/min 20 °C 43 kPa 47 80 °C 15.9 1/min 10.8 1/min 20 °C 43 kPa 47 80 °C 15 1/min 11.4 1/min 20 °C 43 kPa 47 80 °C 15.9 1/min 12.0 1/min 21 °C 35 kPa 37 80 °C 15.9 1/min 12.0 1/min 20 °C 43 kPa 47 80 °C 15.9 1/min 12.0 1/min 21 °C 49 kPa 56 Flow 8500 40 - DHW Temperature 60°C *  Flow 8500 40 - DHW Temperature 60°C *  70 °C 9 1/min 10.3 1/min 26 °C 35 kPa 31 70 °C 12 1/min 13.3 1/min 27 °C 70 kPa 42 80 °C 9 1/min 13.3 1/min 27 °C 70 kPa 31 80 °C 9 1/min 7.7 1/min 20 °C 20 kPa 31 80 °C 12 1/min 10.4 1/min 20 °C 20 kPa 31 80 °C 12 1/min 10.4 1/min 20 °C 20 kPa 31 80 °C 12 1/min 10.4 1/min 20 °C 20 kPa 31	70 °C	12 l/min	9.0 l/min	17 °C	26 kPa	33		
80 °C	70 °C	15 l/min	11.4 l/min	18 °C	42 kPa	42		
80 °C       15 l/min       9.6 l/min       17 °C       32 kPa       42         Flow 8500 40 - DHW Temperature 55°C *         60 °C       9 l/min       11.3 l/min       24 °C       42 kPa       28         60 °C       10.6 l/min       13.3 l/min       26 °C       70 kPa       32         70 °C       9 l/min       7.9 l/min       19 °C       20 kPa       28         70 °C       12 l/min       10.8 l/min       21 °C       37 kPa       37         70 °C       15 l/min       13.9 l/min       22 °C       69 kPa       47         80 °C       9 l/min       6.5 l/min       17 °C       15 kPa       28         80 °C       12 l/min       8.9 l/min       19 °C       27 kPa       37         80 °C       15 l/min       11.4 l/min       20 °C       43 kPa       47         80 °C       15.9 l/min       12.0 l/min       21 °C       49 kPa       56         Flow 8500 40 - DHW Temperature 60°C *         70 °C       9 l/min       10.3 l/min       26 °C       35 kPa       31         70 °C       9 l/min       13.3 l/min       27 °C       70 kPa       42         80 °C       9 l/min	80 °C	9 l/min	5.7 l/min	15 °C	12 kPa	25		
Flow 8500 40 - DHW Temperature 55°C *  60 °C 9    /min 11.3    /min 24 °C 42    kPa 28    60 °C 10.6    /min 13.3    /min 26 °C 70    kPa 32    70 °C 9    /min 10.8    /min 21 °C 37    kPa 37    70 °C 12    /min 13.9    /min 22 °C 69    kPa 47    80 °C 15    /min 13.9    /min 17 °C 15    kPa 28    80 °C 9    /min 6.5    /min 17 °C 15    kPa 28    80 °C 12    /min 8.9    /min 19 °C 27    kPa 37    80 °C 15    /min 11.4    /min 20 °C 43    kPa 47    80 °C	80 °C	12 l/min	7.6 l/min	16 °C	20 kPa	33		
60 °C 9 l/min 11.3 l/min 24 °C 42 kPa 28 60 °C 10.6 l/min 13.3 l/min 26 °C 70 kPa 32 70 °C 9 l/min 7.9 l/min 19 °C 20 kPa 28 70 °C 12 l/min 10.8 l/min 21 °C 37 kPa 37 70 °C 15 l/min 13.9 l/min 22 °C 69 kPa 47 80 °C 9 l/min 6.5 l/min 17 °C 15 kPa 28 80 °C 12 l/min 8.9 l/min 19 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56 Flow 8500 40 - DHW Temperature 60 °C *  Flow 8500 40 - DHW Temperature 60 °C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31 70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	80 °C	15 l/min	9.6 l/min	17 °C	32 kPa	42		
60 °C 10.6 l/min 13.3 l/min 26 °C 70 kPa 32 70 °C 9 l/min 7.9 l/min 19 °C 20 kPa 28 70 °C 12 l/min 10.8 l/min 21 °C 37 kPa 37 70 °C 15 l/min 13.9 l/min 22 °C 69 kPa 47 80 °C 9 l/min 6.5 l/min 17 °C 15 kPa 28 80 °C 12 l/min 8.9 l/min 19 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56 Flow 8500 40 - DHW Temperature 60 °C *  Flow 8500 40 - DHW Temperature 60 °C *  70 kPa 32	Flow 8500 40 - DHW Temperature 55°C *							
70 °C       9 l/min       7.9 l/min       19 °C       20 kPa       28         70 °C       12 l/min       10.8 l/min       21 °C       37 kPa       37         70 °C       15 l/min       13.9 l/min       22 °C       69 kPa       47         80 °C       9 l/min       6.5 l/min       17 °C       15 kPa       28         80 °C       12 l/min       8.9 l/min       19 °C       27 kPa       37         80 °C       15 l/min       11.4 l/min       20 °C       43 kPa       47         80 °C       15.9 l/min       12.0 l/min       21 °C       49 kPa       56         Flow 8500 40 - DHW Temperature 60°C *         70 °C       9 l/min       10.3 l/min       26 °C       35 kPa       31         70 °C       9 l/min       13.3 l/min       27 °C       70 kPa       42         80 °C       9 l/min       7.7 l/min       20 °C       20 kPa       31         80 °C       12 l/min       10.4 l/min       22 °C       36 kPa       42	60 °C	9 l/min	11.3 l/min	24 °C	42 kPa	28		
70 °C       12 l/min       10.8 l/min       21 °C       37 kPa       37         70 °C       15 l/min       13.9 l/min       22 °C       69 kPa       47         80 °C       9 l/min       6.5 l/min       17 °C       15 kPa       28         80 °C       12 l/min       8.9 l/min       19 °C       27 kPa       37         80 °C       15 l/min       11.4 l/min       20 °C       43 kPa       47         80 °C       15.9 l/min       12.0 l/min       21 °C       49 kPa       56         Flow 8500 40 - DHW Temperature 60°C *         70 °C       9 l/min       10.3 l/min       26 °C       35 kPa       31         70 °C       12 l/min       13.3 l/min       27 °C       70 kPa       42         80 °C       9 l/min       7.7 l/min       20 °C       20 kPa       31         80 °C       12 l/min       10.4 l/min       22 °C       36 kPa       42	60 °C	10.6 l/min	13.3 l/min	26 °C	70 kPa	32		
70 °C 15 l/min 13.9 l/min 22 °C 69 kPa 47 80 °C 9 l/min 6.5 l/min 17 °C 15 kPa 28 80 °C 12 l/min 8.9 l/min 19 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56  Flow 8500 40 - DHW Temperature 60 °C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31 70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	70 °C	9 l/min	7.9 l/min	19 °C	20 kPa	28		
80 °C 9 l/min 6.5 l/min 17 °C 15 kPa 28 80 °C 12 l/min 8.9 l/min 19 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56  Flow 8500 40 - DHW Temperature 60°C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31 70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	70 °C	12 l/min	10.8 l/min	21 °C	37 kPa	37		
80 °C 12 l/min 8.9 l/min 19 °C 27 kPa 37 80 °C 15 l/min 11.4 l/min 20 °C 43 kPa 47 80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56  Flow 8500 40 - DHW Temperature 60°C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31 70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	70 °C	15 l/min	13.9 l/min	22 °C	69 kPa	47		
80 °C       15 l/min       11.4 l/min       20 °C       43 kPa       47         80 °C       15.9 l/min       12.0 l/min       21 °C       49 kPa       56         Flow 8500 40 - DHW Temperature 60°C *         70 °C       9 l/min       10.3 l/min       26 °C       35 kPa       31         70 °C       12 l/min       13.3 l/min       27 °C       70 kPa       42         80 °C       9 l/min       7.7 l/min       20 °C       20 kPa       31         80 °C       12 l/min       10.4 l/min       22 °C       36 kPa       42	80 °C	9 l/min	6.5 l/min	17 °C	15 kPa	28		
80 °C 15.9 l/min 12.0 l/min 21 °C 49 kPa 56  Flow 8500 40 - DHW Temperature 60°C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31  70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42  80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31  80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	80 °C	12 l/min	8.9 l/min	19 °C	27 kPa	37		
Flow 8500 40 - DHW Temperature 60°C *  70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31  70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42  80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31  80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	80 °C	15 l/min	11.4 l/min	20 °C	43 kPa	47		
70 °C 9 l/min 10.3 l/min 26 °C 35 kPa 31 70 °C 12 l/min 13.3 l/min 27 °C 70 kPa 42 80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	80 °C	15.9 l/min	12.0 l/min	21 °C	49 kPa	56		
70 °C       12 l/min       13.3 l/min       27 °C       70 kPa       42         80 °C       9 l/min       7.7 l/min       20 °C       20 kPa       31         80 °C       12 l/min       10.4 l/min       22 °C       36 kPa       42	Flow 8500 40 - DHW Temperature 60°C *							
80 °C 9 l/min 7.7 l/min 20 °C 20 kPa 31 80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	70 °C	9 l/min	10.3 l/min	26 °C	35 kPa	31		
80 °C 12 l/min 10.4 l/min 22 °C 36 kPa 42	70 °C	12 l/min	13.3 l/min	27 °C	70 kPa	42		
	80 °C	9 l/min	7.7 l/min	20 °C	20 kPa	31		
80 °C 15 l/min 13.4 l/min 24 °C 70 kPa 52	80 °C	12 l/min	10.4 l/min	22 °C	36 kPa	42		
	80 °C	15 l/min	13.4 l/min	24 °C	70 kPa	52		

<sup>\*</sup> DHW setpoints adjustable in 5°C increments between 30°C and 60°C. For further network information on temperatures not mentioned in this table, please contact commercial.Industrial@uk.bosch.com

TECHNICAL DATA SHEET COM 119 (05/2024)



# Flow 8500 Optional accessories:



Rear vertical piping



Flushing valve



Summer by-pass



Over temp shut off valve



**Keyless filling link** 



Sense II controller

Product description	Part number	Product description	Part number
Flow 8500 40	7-735-600-739	Security Fixings	7-733-600-281
Flow 8500 40 H <sup>1)</sup>	7-735-600-740	Rear vertical piping kit	7-733-600-127
Flow 8500 50	7-735-600-741	Flushing valve (Compression)	7-733-600-133
Flow 8500 50 H <sup>1)</sup>	7-735-600-742	Flushing valve (Flat face)	7-733-601-142
Flow 8500 60	7-735-600-743	Summer by-pass (Mechanical)	7-733-600-132
Flow 8500 60 H <sup>1)</sup>	7-735-600-744	Keyless filling link	7-716-192-610
Flow 8500 Pre-fix kit (Compression) 2)	7-735-600-836	Sense II controller	7-738-111-064
Flow 8500 Pre-fix kit (Flat face) 2)	7-735-600-837	Greenstar System Filter Mini	7-733-600-266
Over temp shut off valve 3)	7-735-600-808	Greenstar System Filter 22mm	7-733-600-236

- 1) With heat meter wired and wireless M-Bus as standard
- 2) Either compression or flat face pre-fix kit is required per Flow 8500 HIU
- 3) Required if primary flow temperature is 70°C or greater