

**Hoval calorifier**  
**CombiVal CR (200-1000)**

- Calorifier made of stainless steel
- Flat section coils made of stainless steel, built in
- Thermal insulation made of polyester fleece with patented aluminium sealing bracket. Outer casing made of polypropylene, red coloured
- (200) 1-part
- (300-800) 2-part
- (1000) 3-part
- CombiVal CR (200-500)  
1 1/2" sleeve for the mounting of a screw-in electric heating element, sensor terminal bar
- CombiVal CR (800,1000)  
Flange above as additional cleaning flange (SVGW regulation) or for the installation of a flange-mounted electric heating element.
- Flange below as cleaning flange or for installation of a flange-mounted electric heating element
- With thermometer
- Two terminal strips for contact sensors
- Observe limit values for chloride content in domestic water - see "Engineering".
- Connection cable for equipotential bonding, permanently mounted

*Delivery*

- Calorifier and thermal insulation completely installed (can be removed for installation)

*On request*

- Electric heating element
- Electric heating element for flange above
- Flange cover with sleeve for flange below for the installation of a screw-in electric heating element
- Correx® impressed current anode set

**Screw-in electric heating element**  
**Type EP 2.5 to EP 5**

- Made of Incoloy® alloy 825
- Heat input 2.35 to 4.9 kW
- Incl. temperature control and safety temperature limiter
- Connection:  
EP 2.5: 3 x 400 V (1 x 230 V)  
EP 3.5 and EP 5: 3 x 400 V
- Not suitable for exclusively electric heating.

*Delivery*

- Delivered separately packed

*On site*

- Installation of the electric heating element



CombiVal CR (500)

CombiVal CR (1000)

**Range**

CombiVal type

CR	(200)	<b>B</b>
CR	(300)	<b>B</b>
CR	(500)	
CR	(800)	
CR	(1000)	

**Flange-mounted electric heating element**  
**Type EFHK-C 4 to EFHK-C 9**

- Made of Incoloy® alloy 825
- Heat output 4.0 to 9.0 kW, according to the rules of the power works
- Incl. temperature control and safety temperature limiter
- Connection 3 x 400 V
- Not suitable for exclusively electric heating.

*Delivery*

- Delivered separately packed

*On site*

- Installation of the electric heating element

Calorifier



**CombiVal CR (200-1000)**

With built-in flat section coil made of stainless steel. CombiVal CR (200-1000) thermal insulation fully installed.

CombiVal CR type		Volume dm <sup>3</sup>	Heating surface m <sup>2</sup>
(200)	<b>B</b> →	218	1.28
(300)	<b>B</b> →	316	1.28
(500)		544	1.70
(800)		818	2.63
(1000)		1042	2.63

**Notice**

The connections must only be designed in stainless steel; if not, suitable isolating or bridging connectors (or MEPLA pipe transition pieces) must be used.

When using insulating or bridging connectors (galvanic isolation), the earth cable attached to the calorifier must not be connected. When using galvanised circulation pipes, a backwash filter must be installed.

**Electric heating elements**

see chapter "Electric heating elements"

Part No.

7016 755  
7016 756  
7016 757  
7016 758  
7016 759

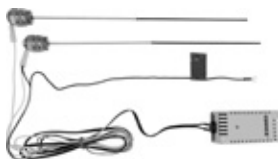
Accessories



**Kit Correx® impressed current anode UP1.9-924-L395/1**

for long-term corrosion protection for installation in the stainless steel calorifier with reduction R 1½" - Rp ¾"  
Installation length: 395 mm  
Connection cable length: 1 x 3500 mm  
1 Correx® impressed current anode (up to 800 l)

6031 813



**Kit Correx® impressed current anode UP1.9-924-L395/2**

for long-term corrosion protection for installation in the stainless steel calorifier  
Installation length: 395 mm  
Connection cable length: 2 x 2000 mm  
2 Correx® impressed current anodes (from 1000 l)

6052 439

Part No.



**Immersion sensor TF/2P/5/6T,  
L = 5.0 m with plug**  
for TopTronic® E controller modules/  
module expansions with exception of  
basic module district heating/fresh  
water or basic module district heating com  
cable length: 5 m with plug  
sensor sleeve diameter: 6 x 50 mm  
dewpoint-proof  
operating temperature: -20...105 °C  
protection class: IP67

2056 788



**Immersion sensor TF/2P/5/6T, L = 5.0 m**  
for TopTronic® E controller modules/  
module expansions with exception of  
basic module district heating/fresh  
water or basic module district  
heating com,  
cable length: 5 m without plug  
sensor sleeve diameter: 6 x 50 mm,  
dewpoint-proof,  
operating temperature: -20...105 °C,  
protection class: IP67

2055 888



**Immersion sensor TF/12N/2.5/6T,  
L = 2.5 m**  
for gas boiler with RS-OT  
Cable length: 2.5 m  
Sensor sleeve diameter: 6 x 50 mm,  
dewpoint-proof,  
operating temperature: -20...105 °C,  
protection class: IP67

2056 791

At TopTronic® E, immersion sensor is included in the boiler controller or in the heating controller set.



**Calorifier thermostat control  
TW 12**  
Universal thermostat controller  
for thermostatic pump charge  
demand, setting in  
casing, visible from outside.  
15-95 °C, switching difference 6 K,  
capillar length 700 mm  
incl. fastening material for  
Hoval calorifier, can be used with  
integrated immersion sleeve

6010 080

**Thermal water mixer**  
see "Various system components"

Services



**Commissioning**  
Commissioning by works service or Hoval  
trained authorised serviceman/company is  
condition for warranty.

For commissioning and other services  
please contact your Hoval sales office.

**CombiVal CR (200-1000)**

Type		(200)	(300)	(500)	(800)	(1000)
• Contenance	dm <sup>3</sup>	218	316	544	818	1042
• Pression de service/Pression d'essai SSIGE	bar	6/12	6/12	6/12	6/12	6/12
• Température de service maximale	°C	95	95	95	95	95
• Isolation thermique en fibres polyester	mm	120	120	120	100	100
• Isolation thermique λ	W/mK	0.035	0.035	0.035	0.035	0.035
• Classement au feu		B2	B2	B2	B2	B2
• Perte de maintien d'eau chaude à 65 °C	W	56	67	80	136	142
• Poids de transport	kg	95	108	129	191	205
• Valeur U	W/m <sup>2</sup> K	0.315	0.472	0.423	0.483	0.459
<b>Registre de chauffage (monté à demeure)</b>						
• Surface de chauffe	m <sup>2</sup>	1.28	1.28	1.70	2.63	2.63
• Eau de chauffage	dm <sup>3</sup>	4.1	4.1	5.1	7.4	7.4
• Perte de charge <sup>1)</sup> d'eau	coeff. z	11.65	11.65	15.50	24.00	24.00
• Perte de charge <sup>1)</sup> d'eau/glycol 50 %	coeff. z	15.73	15.73	20.93	32.40	32.40
• Pression de service/Pression d'essai SSIGE	bar	3/6	3/6	3/6	3/6	3/6
• Température de service maximale	°C	95	95	95	95	95
• Dimensions		voir Dimensions				

<sup>1)</sup> Perte de charge registre de chauffage en mbar = débit volumique (m<sup>3</sup>/h)<sup>2</sup> x z (1 mbar = 0.1 kPa)

**Performance figure**

Selection of the storage tank type at a hot water temperature of 45 °C

**Reading example**  
see engineering

T >	Comfort <sup>1)</sup>			Standard <sup>2)</sup>		
	60 °C	70 °C	80 °C	60 °C	70 °C	80 °C
NL v						
1						
2						
3						
4				200		
5	200					
6					200	
7		200				
8				300		
9	300					200
10			200			
11		300				
12					300	
13						
14			300			
15						
16	500					
17						300
18						
19				500		
20		500				
21						
22						
23						
24						
25					500	
26						
27			500			
28						
29						
30	800					
31						
32	1000					
33						
34						500
35						
36						
37						
38		800		800		
39						
40						
41				1000		
42		1000				
43						
44						
45						
46						
47						
48						
49					800	
50						

T >	Comfort <sup>1)</sup>			Standard <sup>2)</sup>		
	60 °C	70 °C	80 °C	60 °C	70 °C	80 °C
NL v						
51						
52			800			
53						
54						
55					1000	
56						
57			1000			
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						800
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> 100						

T = Heating flow

NL = Performance figure

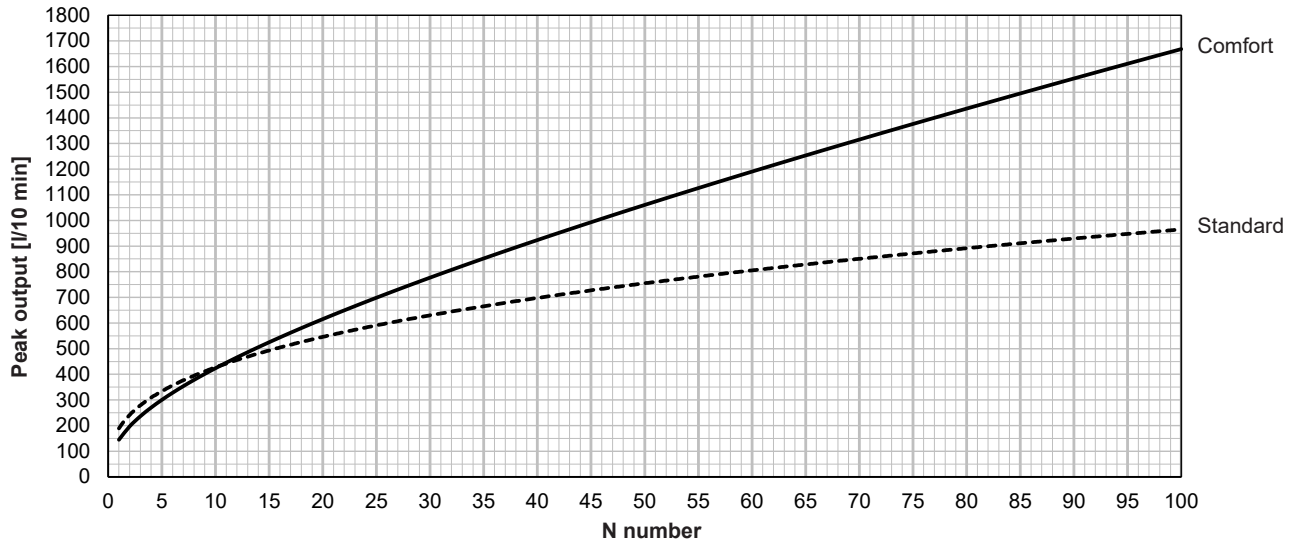
Performance figure NL acc. to DIN 4708 = number of flats which can be supplied with domestic hot water when the calorifier is heated and permanently reheated with the heat generator (standard flat: 1 bathroom - 4 rooms - 3.5 persons)

<sup>1)</sup> Calculation with simultaneity factor according to DIN 4708 (preferred for Switzerland)

<sup>2)</sup> Calculation with simultaneity factor according to Dresden Technical University

10 min peak output/N number with domestic hot water 45 °C  
according to DIN 4708 (Comfort) and Dresden Technical University (Standard)

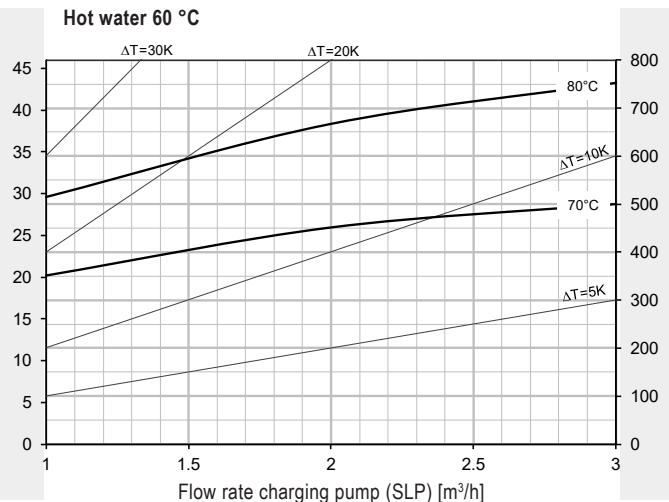
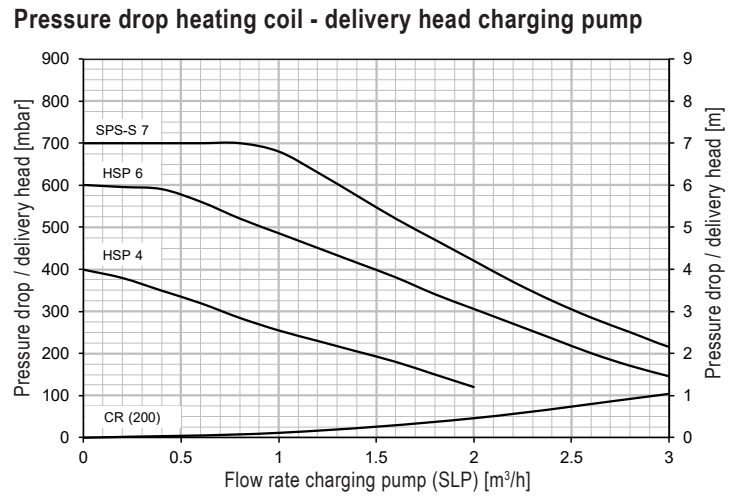
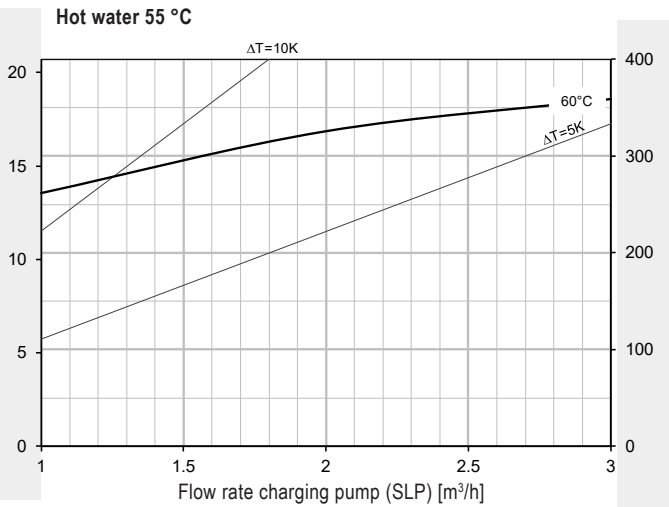
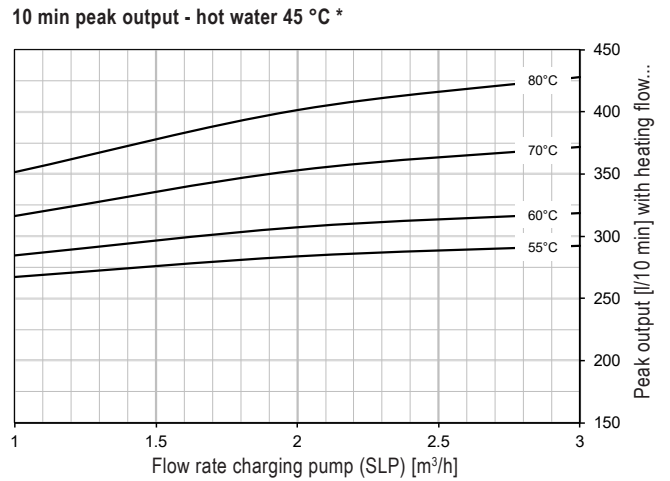
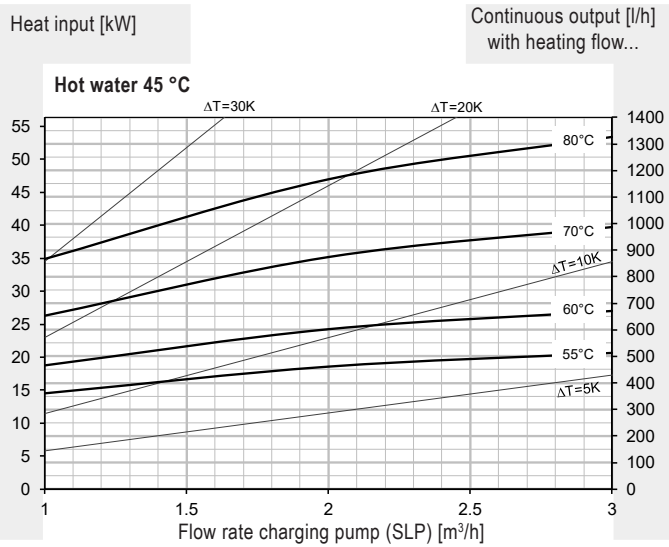
Reading example  
see Engineering



CombiVal CR (200)

Hot water output  
Continuous output

Reading example  
see engineering

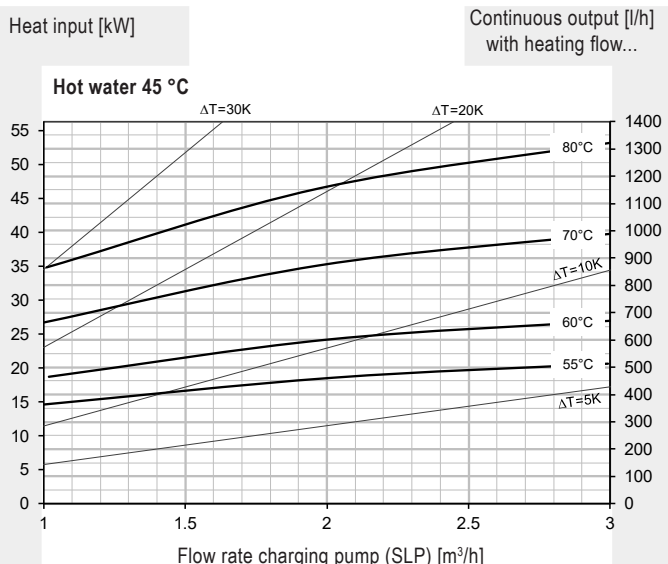


\* Calorifier heated to 60 °C

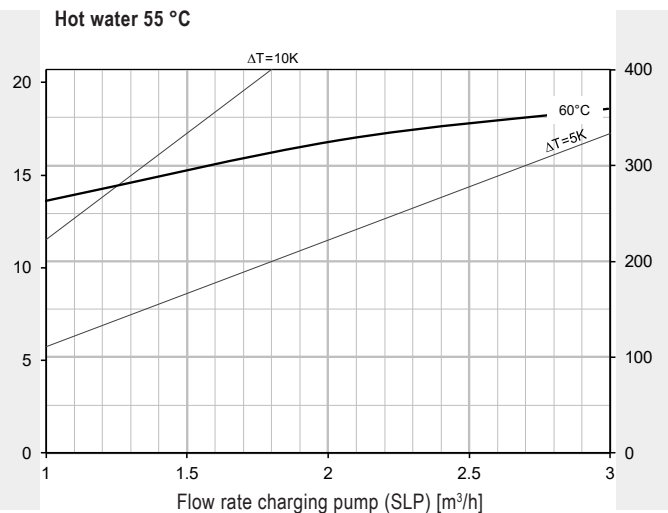
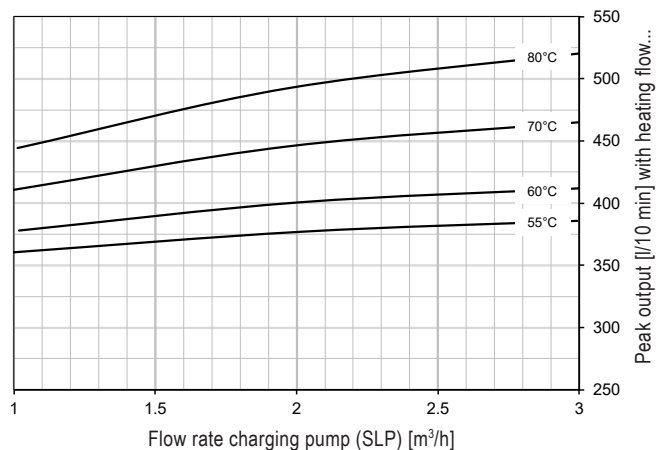
CombiVal CR (300)

Hot water output  
Continuous output

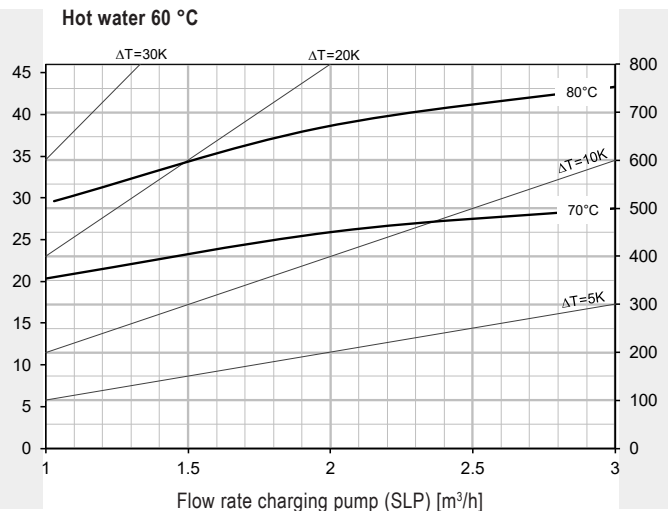
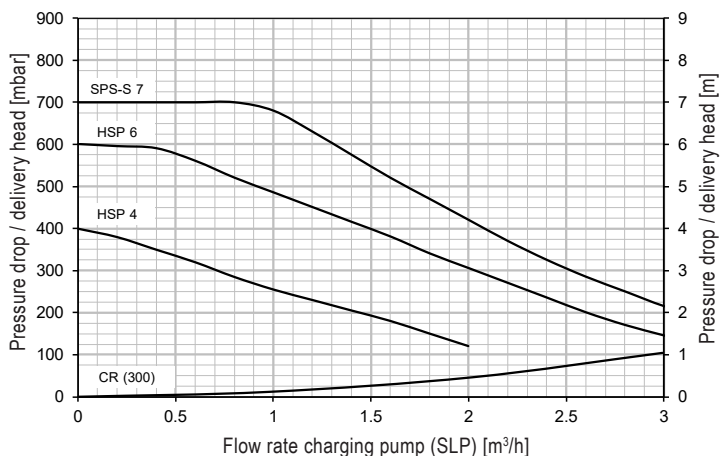
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump



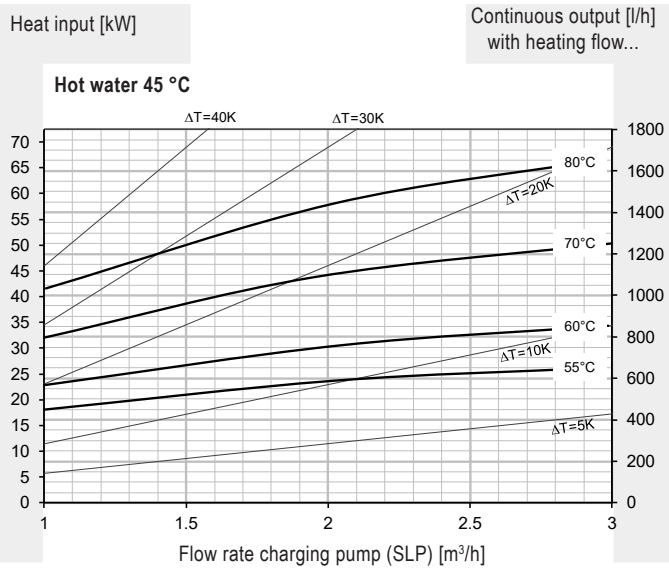
\* Calorifier heated to 60 °C



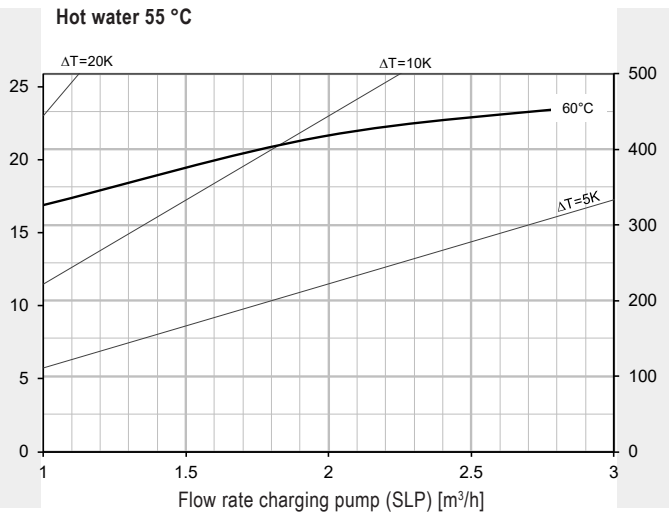
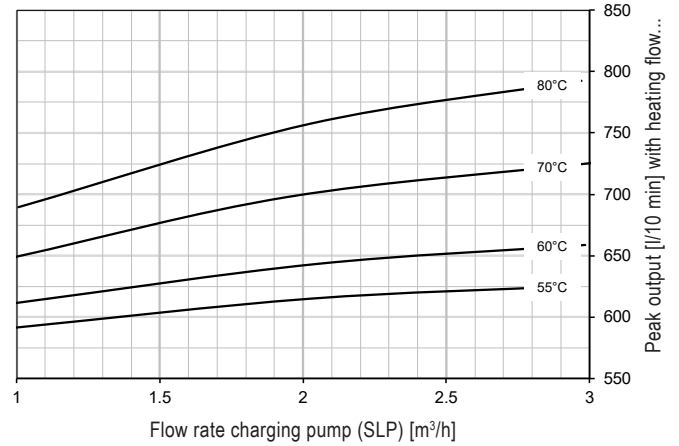
CombiVal CR (500)

Hot water output  
Continuous output

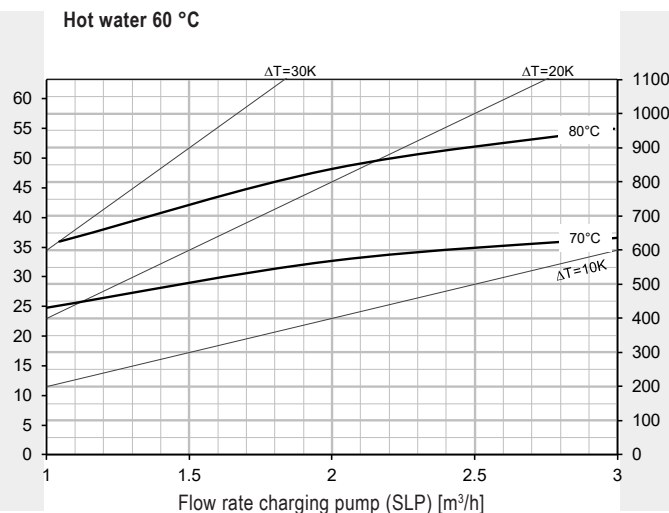
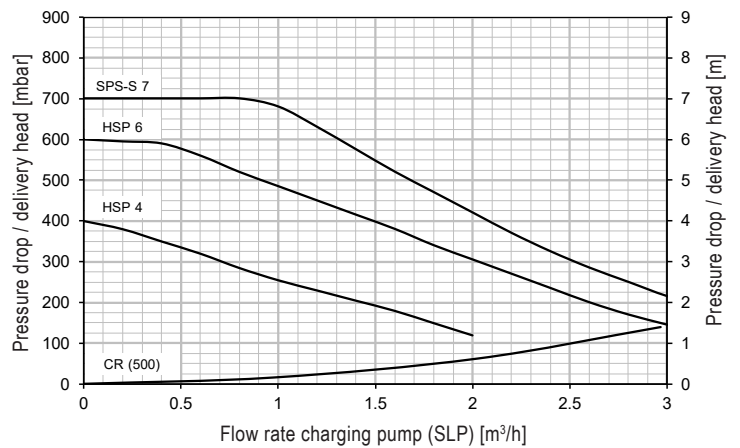
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

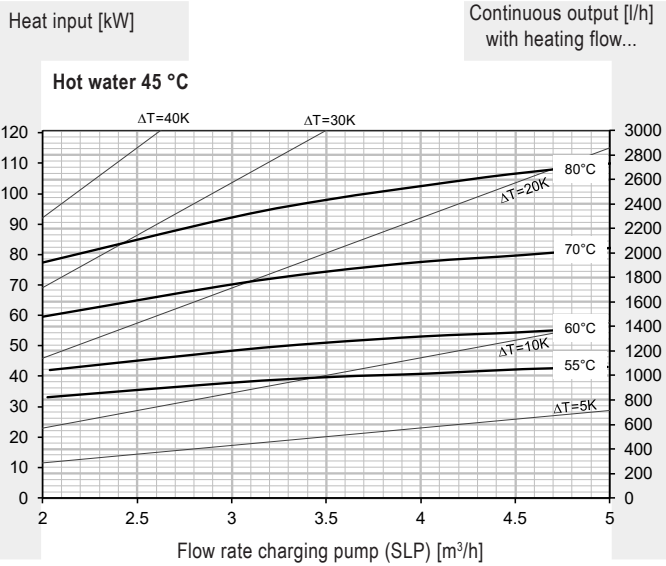


\* Calorifier heated to 60 °C

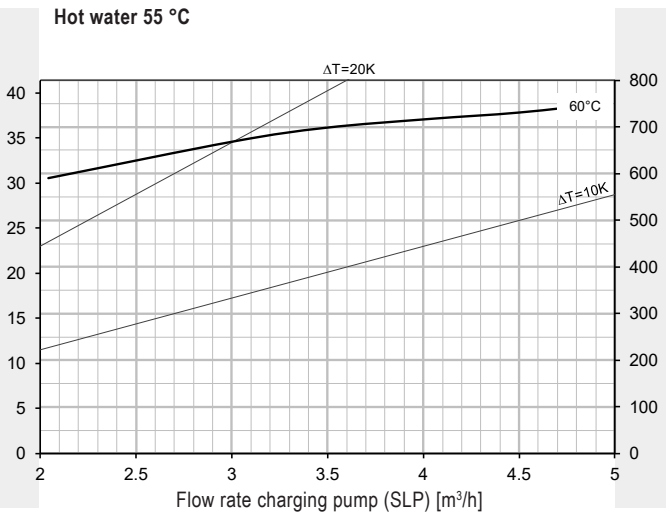
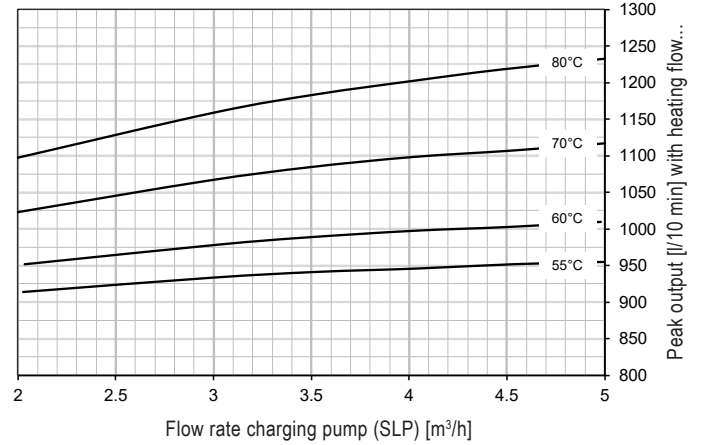
CombiVal CR (800)

Hot water output  
Continuous output

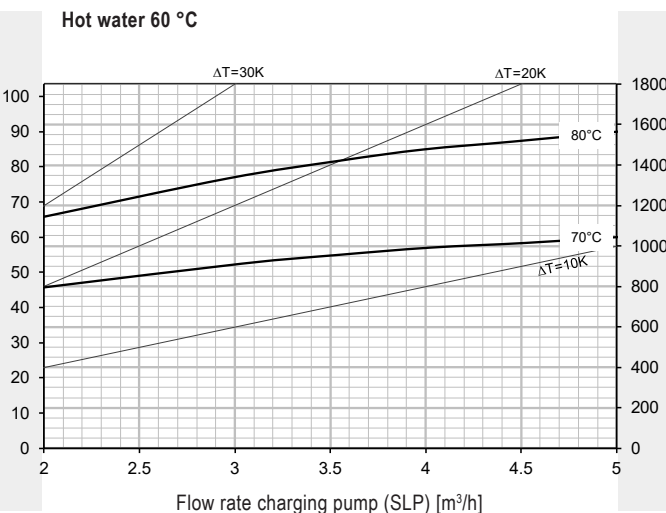
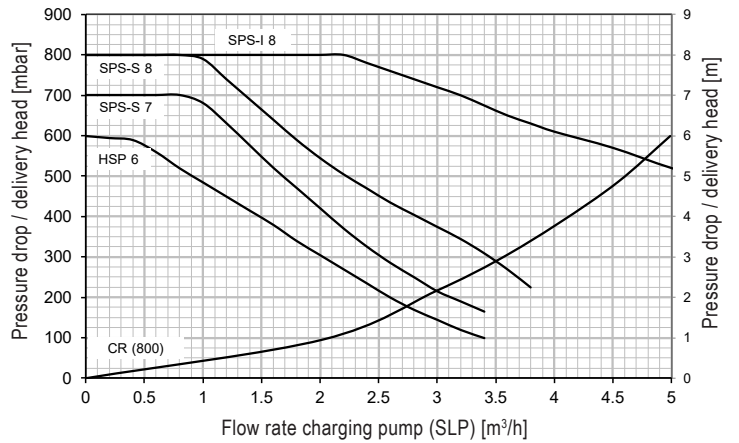
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

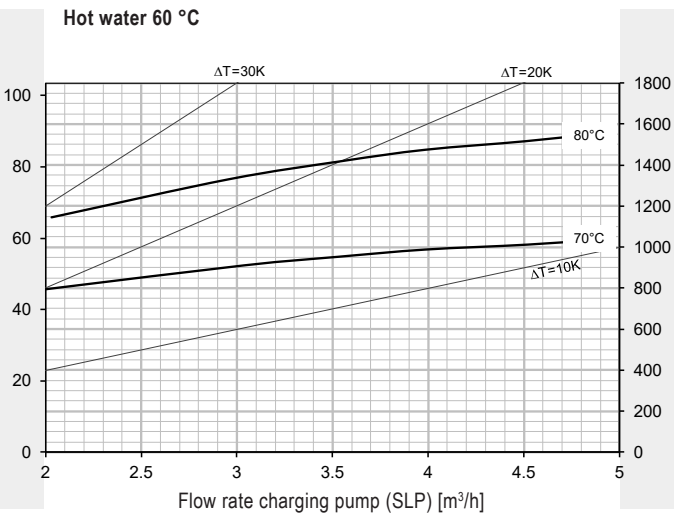
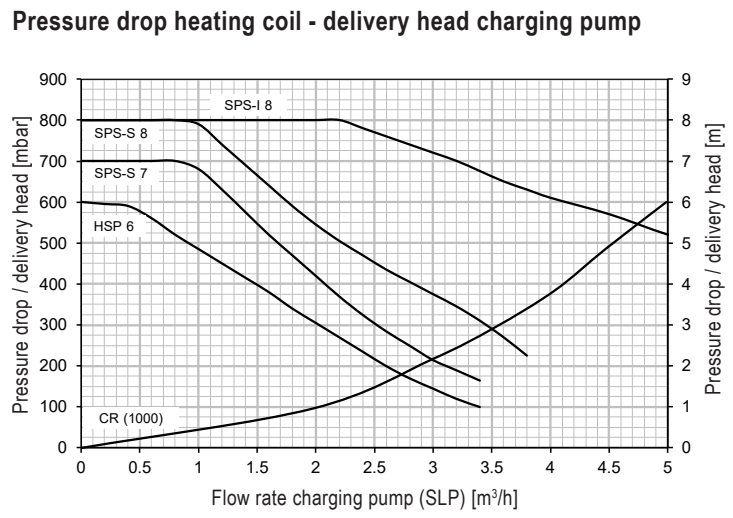
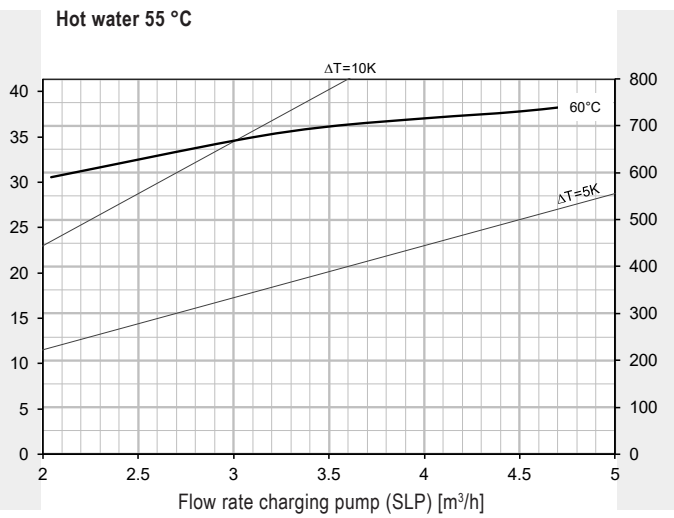
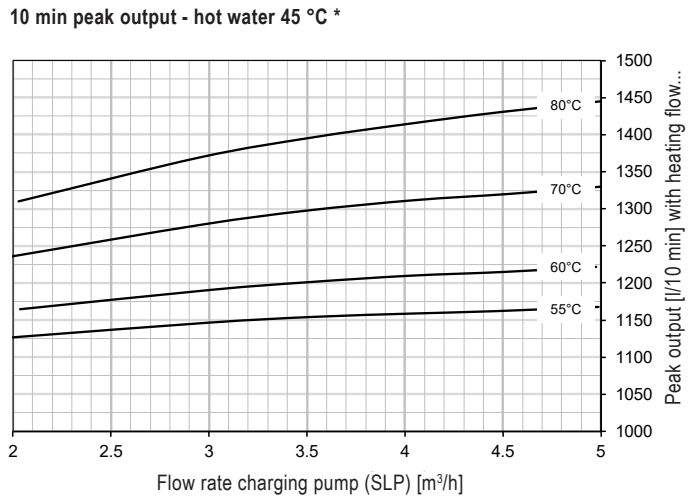
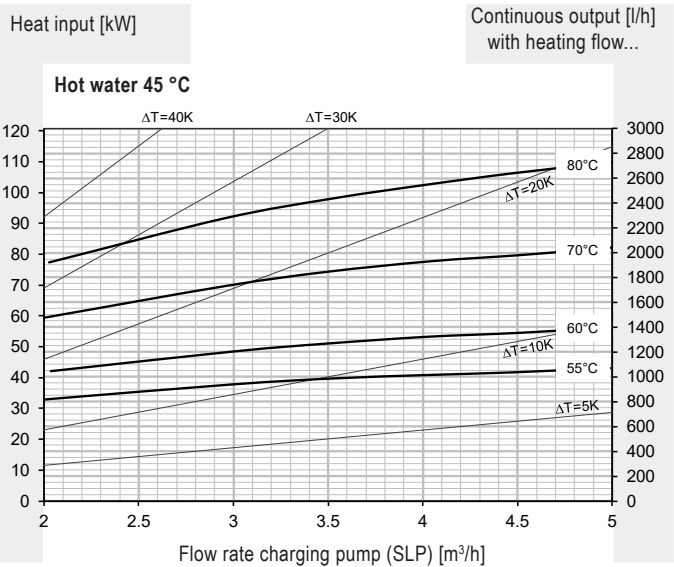


\* Calorifier heated to 60 °C

CombiVal CR (1000)

Hot water output  
Continuous output

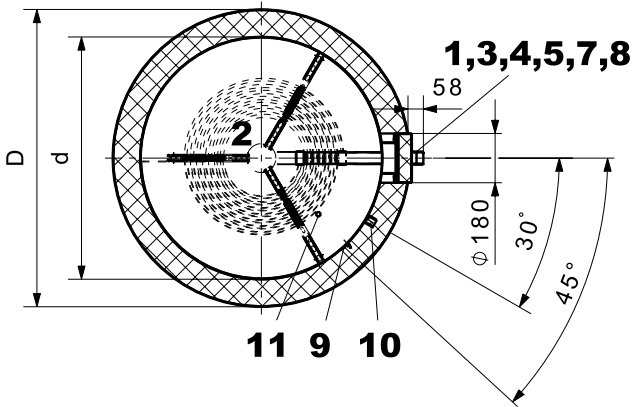
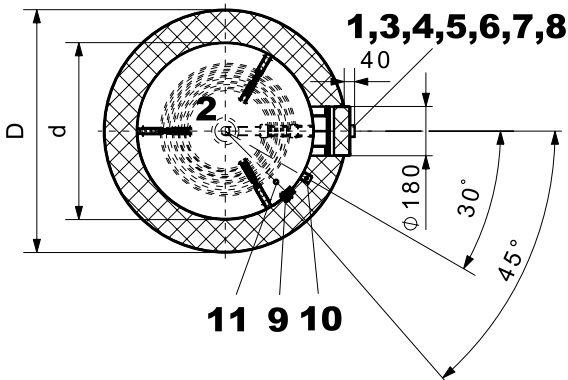
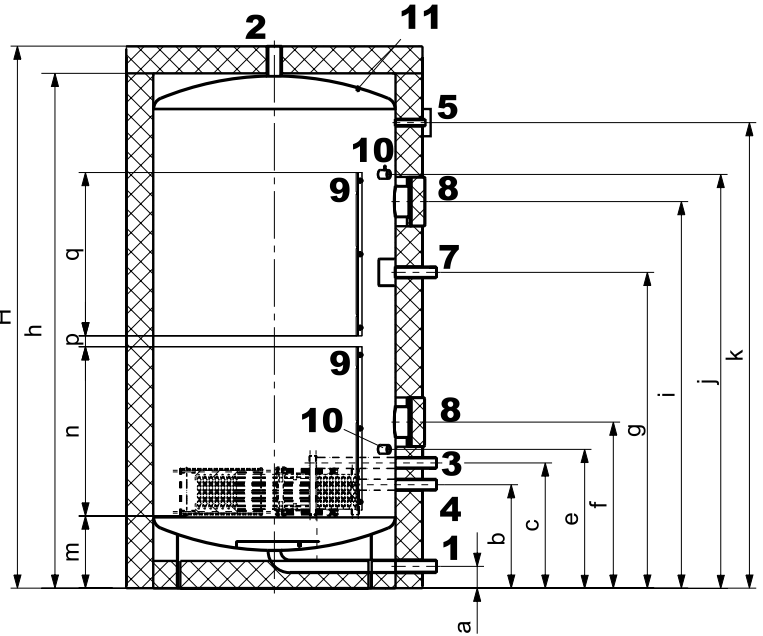
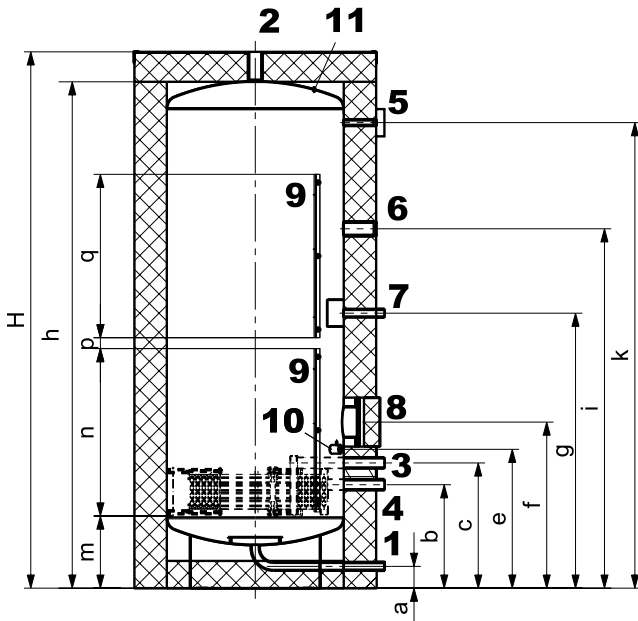
Reading example  
see engineering



\* Calorifier heated to 60 °C

**CombiVal CR (200-500)**  
(Dimensions in mm)

**CombiVal CR (800,1000)**



- |   |                                   |                         |   |
|---|-----------------------------------|-------------------------|---|
| 1 Cold water  | type (200-500)<br>type (800,1000) | G 1" (ET)<br>G 1½" (ET) | 8 Hand-hole flange (flange-mounted electric heating element) Ø 180/110 mm, pitch circle Ø 150 mm, 8 x M10                       |
| 2 Hot water   |                                   | Rp 1½" (IT)             | 9 Sensor terminal bar 600 x 30 mm type (200) 1 x<br>type (300-1000) 2 x   |
| 3 Flow heating  |                                   | G 1¼" (ET)              | 10 Sleeve with grounding bolt for impressed current anode (perforated thermal insulation) type (200-800) 1 x<br>type (1000) 2 x |
| 4 Return heating  |                                   | G 1¼" (ET)              | Attention: observe the installation length  |
| 5 Sleeve with mounted immersion sleeve and thermometer (immersion sleeve: L = 200 mm, inner Ø = 8 mm) |                                   | Rp ½" (IT)              | 11 Equipotential bonding  |
| 6 Connection for screw-in electric heating element  |                                   | Rp 1½" (IT)             |   |
| 7 Circulation   | type (200-500)<br>type (800,1000) | G 1" (ET)<br>G 1¼" (ET) |   |

Deviations possible as a result of manufacturing tolerances.  
Dimensions +/- 10 mm

CombiVal CR type	D	d	H	a	b	c	e	f	g	i	j	k	m	n	p	q	Tilting dimension
(200)	790	550	1213	80	380	460	510	610	760	860	-	980	310	540	-	-	1448
(300)	740	500	1949	80	380	460	510	610	1010	1320	-	1710	310	540	100	540	2085
(500)	890	650	1970	80	380	460	510	610	1010	1320	-	1710	310	540	100	540	2162
(800)	990	790	1991	80	380	460	510	610	1160	1420	-	1710	310	540	100	540	2224
(1000)	1090	890	1991	80	380	460	510	610	1160	1420	1520	1710	310	540	100	540	2270

**Hoval Calorifier  
 CombiVal CSR (300-1000)**

- Calorifier made of stainless steel
- Thermal insulation made of polyester fleece with patented aluminium sealing bracket. Outer casing made of polypropylene, red coloured  
 (300-800) 2-part  
 (1000) 3-part
- CSR (300-500): 2 flat section coils with large heating surface made of stainless steel, built in for use with heat pumps or condensing boilers
- CSR (300-500)  
 1 1/2" sleeve for the installation of a screw-in electric heating element, sensor terminal bar
- CSR (800-1000)  
 2 flat section coils of stainless steel, built in for use with heat pumps or condensing boilers
- Flange above as additional cleaning flange (Swiss SVGW regulation) or for the installation of a flange-mounted electric heating element
- Flange below as cleaning flange or for the installation as flange-mounted electric heating element
- Connection cable for equipotential bonding, permanently mounted
- Distributor bar for parallel connection of the coils
- With thermometer
- Two terminal bars for contact sensor
- Observe limit values for chloride content in domestic water - see "Engineering".

**Delivery**

- Calorifier and thermal insulation completely installed (can be removed for installation)
- Distributor bar delivered in separate packaging

**On request**

- Flange cover with 1 1/2" sleeve for the installation of the electric heating element
- Screw-in electric heating element
- Flange-mounted electric heating element for flange above
- Correx® impressed current anode set

**Hoval Calorifier  
 CombiVal CSR (1250-2000)**

- Calorifier made of stainless steel
- Thermal insulation made of polyester fleece with patented aluminium sealing bracket. Outer casing made of polypropylene, red coloured  
 (1250-2000) 3-part
- Flange below as cleaning flange or for the installation of a flange-mounted electric heating element
- Flange above as additional cleaning flange (Swiss SVGW regulation) or for the installation of a flange-mounted electric heating element
- With 2 flat section coils made of stainless steel, built-in for use with heat pumps or condensing boilers
- With thermometer
- Two terminal bars for contact sensor
- Connection cable for equipotential bonding, permanently mounted



CombiVal CSR (500)

CombiVal CSR (1000)

**Range**

CombiVal type		
CSR	(300)	<b>B</b> ▶
CSR	(400)	<b>B</b> ▶
CSR	(500)	
CSR	(800)	
CSR	(1000)	
CSR	(1250)	
CSR	(1500)	
CSR	(2000)	

- Distributor bar for parallel connection of the coils
- Observe limit values for chloride content in domestic water - see "Engineering".

**Delivery**

- Calorifier, thermal insulation kit, distributor bar delivered in separate packaging

**On request**

- Flange cover with 1 1/2" sleeve for the installation of the electric heating element
- Screw-in electric heating element
- Flange-mounted electric heating element for flange above
- Correx® impressed current anode set

**On site**

- Installation of the thermal insulation, distributor bar

**Screw-in electric heating element  
 Type EP 2.5 to EP 5**

- Made of Incoloy® alloy 825
- Heat input 2.35 to 4.9 kW
- Incl. temperature control and safety temperature limiter
- Connection:  
 EP 2.5: 3 x 400 V (1 x 230 V)  
 EP 3.5 and EP 5: 3 x 400 V
- Not suitable for exclusively electric heating

**Delivery**

- Delivered separately packed

**On site**

- Installation of the electric heating element

**Flange-mounted electric heating element  
 Type EFHK-C 4 to EFHK-C 9**

- Made of Incoloy® alloy 825
- Heat output 4.0 to 9.0 kW, according to the regulation of the current supplier
- With temperature regulation and safety temperature limiter
- Connection 3 x 400 V
- Not suitable for exclusively electric heating

**Delivery**

- Delivered separately packed

**On site**

- Mounting of thermal insulation

Calorifier



**CombiVal CSR (300-2000)**

With integrated flat section coils made of stainless steel, incl. distributor bar for parallel connection of the coils (separately packed)  
 CombiVal CSR (300-1000) thermal insulation fully mounted.  
 CombiVal CSR (1250-2000) calorifier and thermal insulation delivered separately packed

CombiVal CSR type		Volume dm <sup>3</sup>	Heating surface m <sup>2</sup>
(300)	<b>B</b>	316	2.56
(400)	<b>B</b>	439	3.4
(500)		544	5.26
(800)		818	6.3
(1000)		1042	10.0
(1250)		1189	10.0
(1500)		1625	11.3
(2000)		1958	12.7

**Notice**

The connections must only be designed in stainless steel; if not, suitable isolating or bridging connectors (or MEPLA pipe transition pieces) must be used.  
 When using insulating or bridging connectors (galvanic isolation), the earth cable attached to the calorifier must not be connected. When using galvanised circulation pipes, a backwash filter must be installed.

**Electric heating elements**

see chapter "Electric heating elements"

Part No.

Accessories



**Kit Correx® impressed current anode UP1.9-924-L395/1**

for long-term corrosion protection for installation in the stainless steel calorifier  
 with reduction R 1½" - Rp ¾"  
 Installation length: 395 mm  
 Connection cable length: 1 x 3500 mm  
 1 Correx® impressed current anode (up to 800 l)

6031 813



**Kit Correx® impressed current anode UP1.9-924-L395/2**

for long-term corrosion protection for installation in the stainless steel calorifier  
 Installation length: 395 mm  
 Connection cable length: 2 x 2000 mm  
 2 Correx® impressed current anodes (from 1000 l)

6052 439

## Part No.



**Immersion sensor TF/2P/5/6T,  
L = 5.0 m with plug**  
for TopTronic® E controller modules/  
module expansions with exception of  
basic module district heating/fresh  
water or basic module district heating com  
cable length: 5 m with plug  
sensor sleeve diameter: 6 x 50 mm  
dewpoint-proof  
operating temperature: -20...105 °C  
protection class: IP67

2056 788



**Immersion sensor TF/2P/5/6T, L = 5.0 m**  
for TopTronic® E controller modules/  
module expansions with exception of  
basic module district heating/fresh  
water or basic module district  
heating com,  
cable length: 5 m without plug  
sensor sleeve diameter: 6 x 50 mm,  
dewpoint-proof,  
operating temperature: -20...105 °C,  
protection class: IP67

2055 888



**Immersion sensor TF/12N/2.5/6T,  
L = 2.5 m**  
for gas boiler with RS-OT  
Cable length: 2.5 m  
Sensor sleeve diameter: 6 x 50 mm,  
dewpoint-proof,  
operating temperature: -20...105 °C,  
protection class: IP67

2056 791

At TopTronic® E, immersion sensor is included in the boiler controller or in the heating controller set.



**Calorifier thermostat control  
TW 12**  
Universal thermostat controller  
for thermostatic pump charge  
demand, setting in  
casing, visible from outside.  
15-95 °C, switching difference 6 K,  
capillar length 700 mm  
incl. fastening material for  
Hoval calorifier, can be used with  
integrated immersion sleeve

6010 080

**Thermal water mixer**  
see "Various system components"

## Services

**Commissioning**

Commissioning by works service or Hoval trained authorised serviceman/company is condition for warranty.

For commissioning and other services please contact your Hoval sales office.

## CombiVal CSR (300-2000)

Type		(300)	(400)	(500)	(800)	(1000)	(1250)	(1500)	(2000)
• Contenance	dm <sup>3</sup>	316	439	544	818	1042	1189	1625	1958
• Pression de service/Pression d'essai SSIGE	bar	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
• Température de service maximale	°C	95	95	95	95	95	95	95	95
• Isolation thermique en fibres polyester	mm	120	120	120	100	100	120	120	120
• Isolation thermique λ	W/mK	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
• Classement au feu		B2	B2	B2	B2	B2	B2	B2	B2
• Perte de maintien d'eau chaude à 65 °C	W	67	72	80	136	142	154	176	180
• Poids de transport	kg	122	140	161	224	268	314	431	468
• Valeur U	W/m <sup>2</sup> K	0.272	0.259	0.259	0.387	0.360	0.346	0.338	0.338
<b>Registre de chauffage (monté à demeure)</b>									
• Surface de chauffe	m <sup>2</sup>	2.56	3.40	5.26	6.30	10.00	10.00	11.30	12.70
• Eau de chauffage	dm <sup>3</sup>	7.2	9.3	13.8	16.3	25.3	25.3	28.4	31.8
• Perte de charge <sup>1)</sup> d'eau	coeff. z	1.88	2.48	3.84	4.61	7.24	7.24	8.24	9.28
• Perte de charge <sup>1)</sup> d'eau/glycol 50 %	coeff. z	2.54	3.35	5.18	6.22	9.37	9.37	11.12	12.53
• Pression de service/Pression d'essai SSIGE	bar	3/6	3/6	3/6	3/6	3/6	3/6	3/6	3/6
• Température de service maximale	°C	95	95	95	95	95	95	95	95
• Dimensions		voir Dimensions							

<sup>1)</sup> Perte de charge registre de chauffage en mbar = débit volumique (m<sup>3</sup>/h)<sup>2</sup> x z (1 mbar = 0.1 kPa)



**Performance figure**

Selection of the storage tank type at a hot water temperature of 45 °C

**Reading example**  
see engineering

T >	Comfort <sup>1)</sup>			Standard <sup>2)</sup>		
	60 °C	70 °C	80 °C	60 °C	70 °C	80 °C
NL v						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12	300					
13				300		
14						
15						
16						
17		300				
18						
19						
20						
21	400				300	
22			300			
23						
24						
25						
26				400		
27		400				
28						
29						
30						
31						
32						300
33	500					
34			400			
35						
36						
37						
38				500	400	
39						
40						
41		500				
42						
43						
44						
45						
46						
47						
48						
49	800					
50						

T >	Comfort <sup>1)</sup>			Standard <sup>2)</sup>		
	60 °C	70 °C	80 °C	60 °C	70 °C	80 °C
NL v						
51			500			
52						
53						400
54						
55						
56					500	
57						
58						
59						
60						
61						
62						
63						
64				800		
65						
66						
67						
68						
69						
70		800				
71	1000					
72						
73						
74						
75						
76	1250					500
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92					800	
93						
94	1500			1000		
95						
96						
97						
98			800			
99						
100						
> 100	2000	1000	1000	1250	1000	800
		1250	1250	1500	1250	1000
		1500	1500	2000	1500	1250
		2000	2000		2000	1500
						2000

T = Heating flow

NL = Performance figure

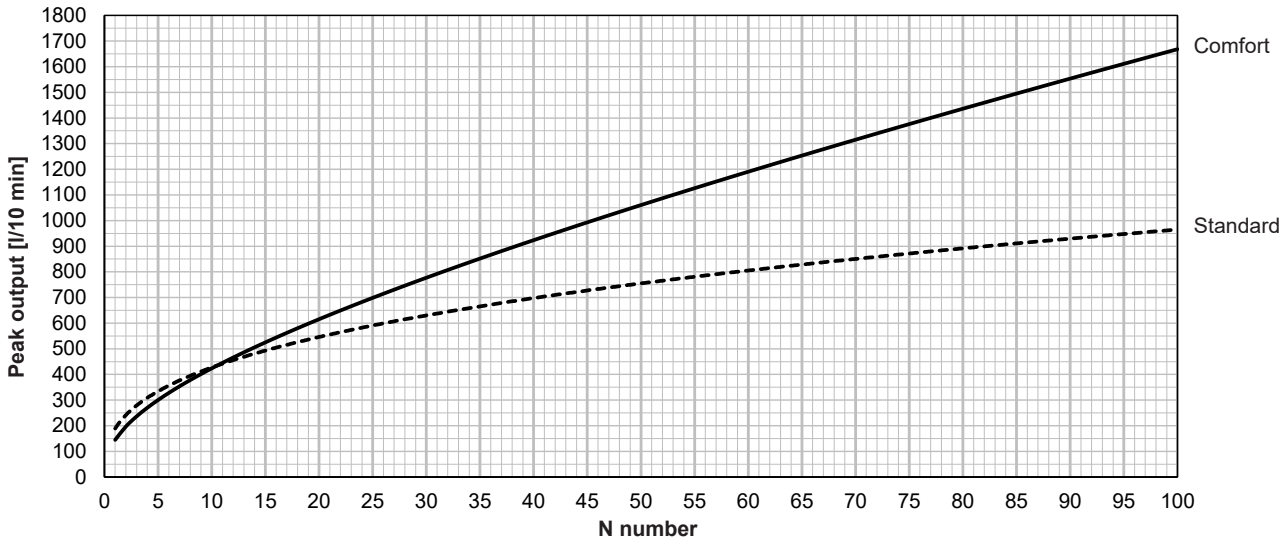
Performance figure NL acc. to DIN 4708 = number of flats which can be supplied with domestic hot water when the calorifier is heated and permanently reheated with the heat generator (standard flat: 1 bathroom - 4 rooms - 3.5 persons)

<sup>1)</sup> Calculation with simultaneity factor according to DIN 4708 (preferred for Switzerland)

<sup>2)</sup> Calculation with simultaneity factor according to Dresden Technical University

**10 min peak output/N number with domestic hot water 45 °C**  
 according to DIN 4708 (Comfort) and Dresden Technical University (Standard)

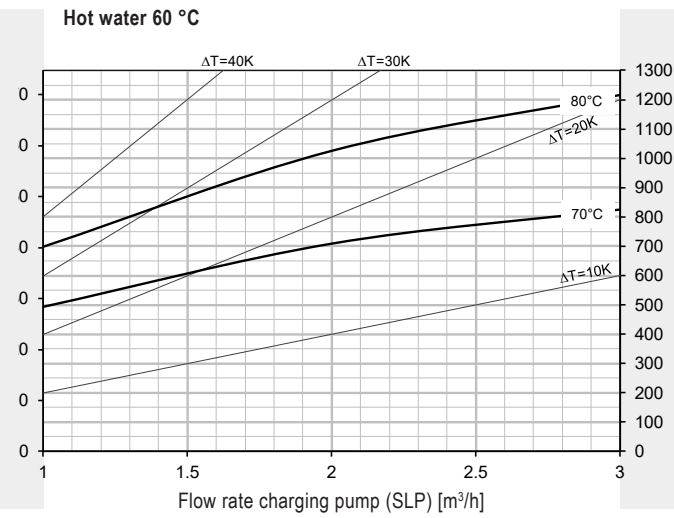
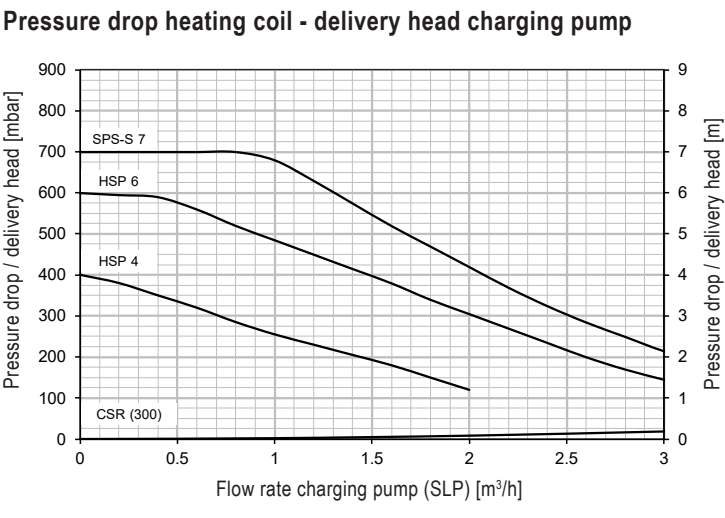
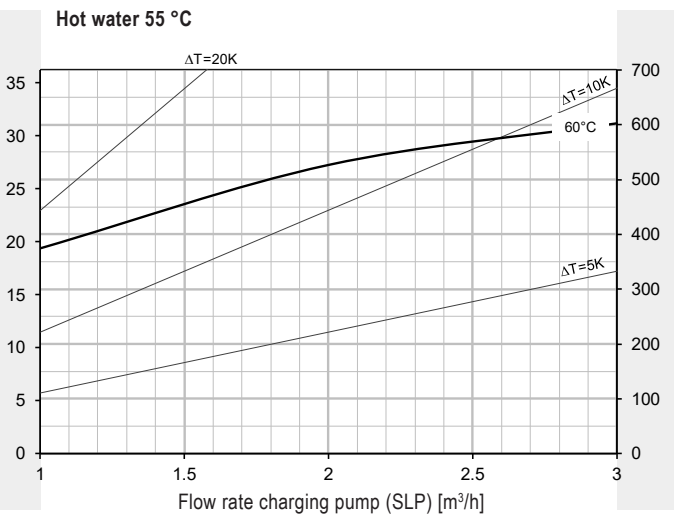
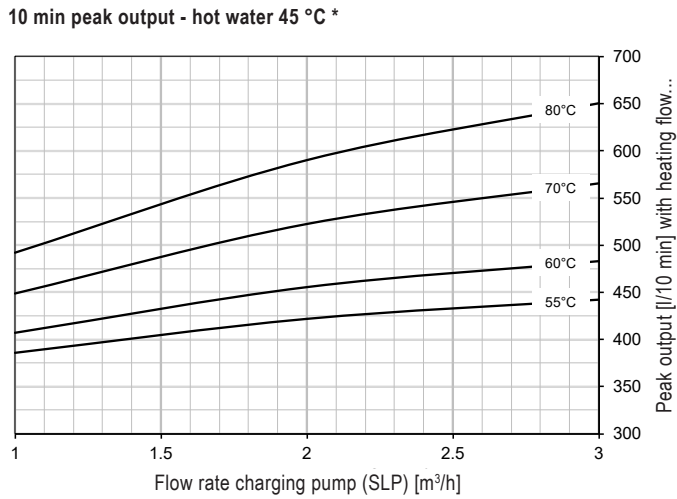
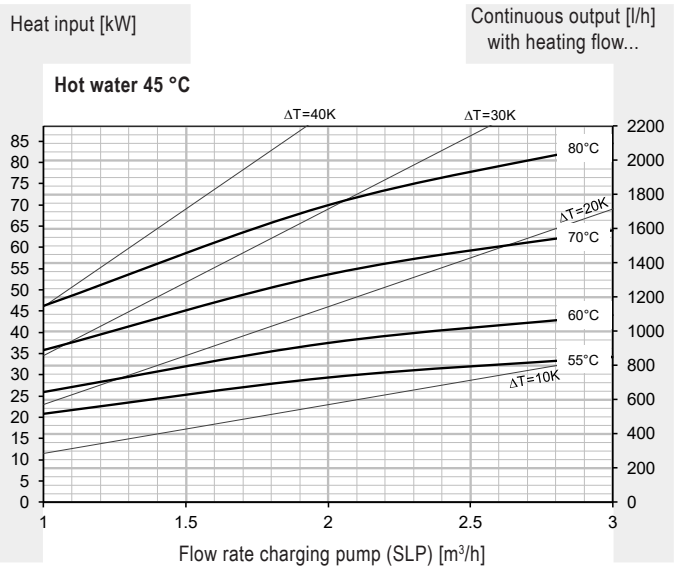
**Reading example**  
 see Engineering



CombiVal CSR (300)

Hot water output  
Continuous output

Reading example  
see engineering

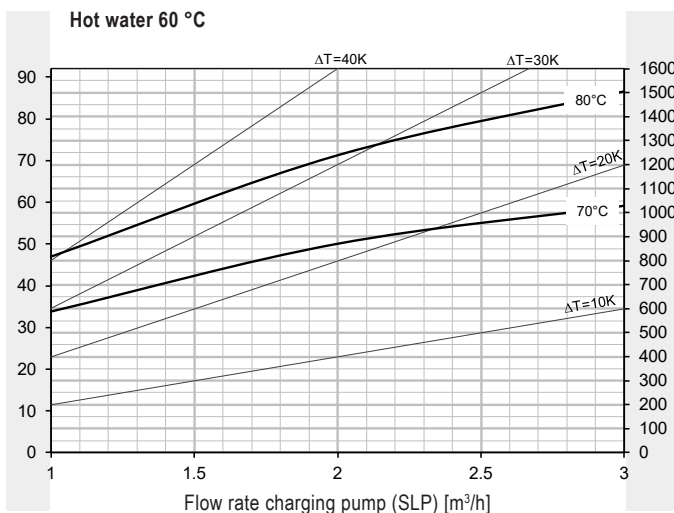
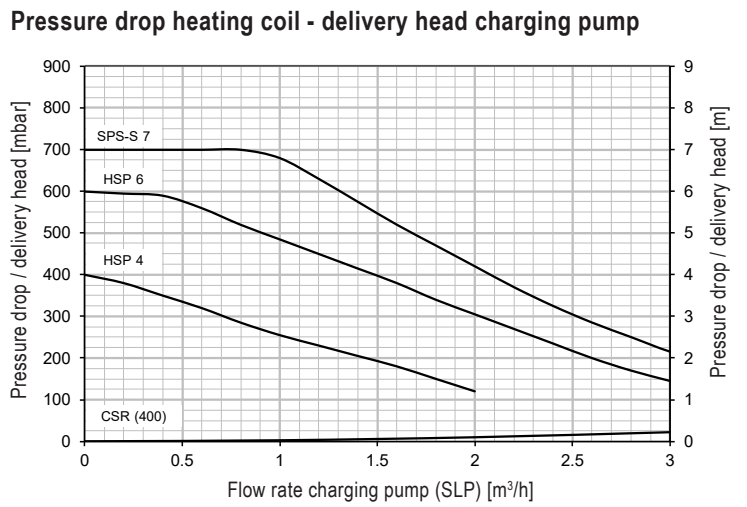
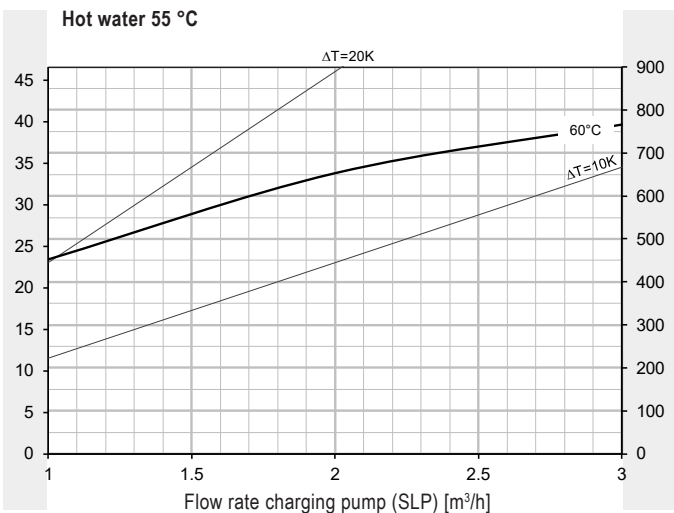
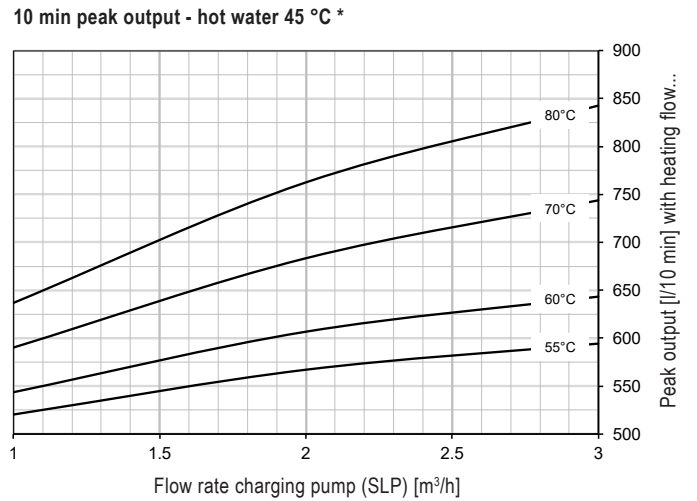
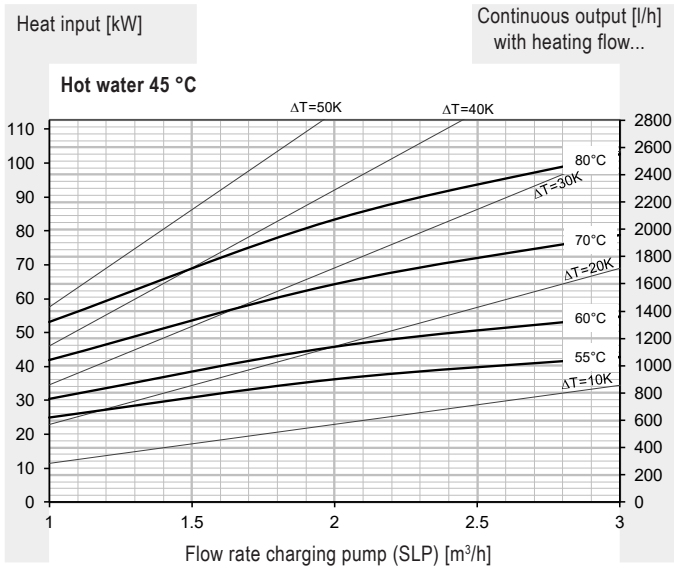


\* Calorifier heated to 60 °C

CombiVal CSR (400)

Hot water output  
Continuous output

Reading example  
see engineering

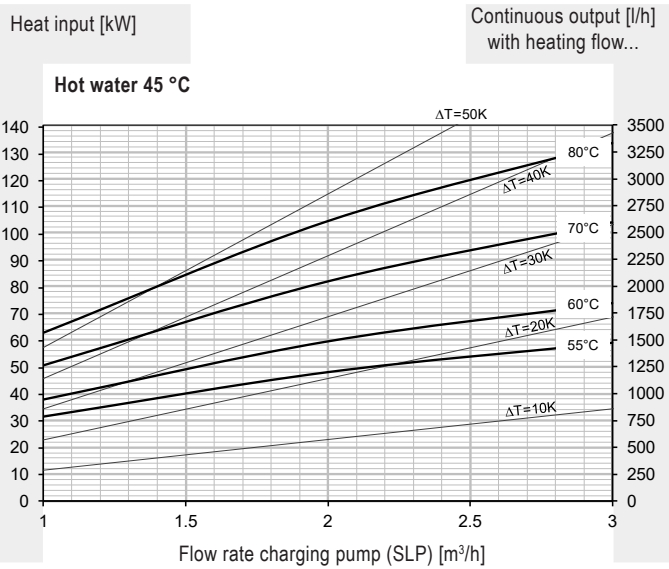


\* Calorifier heated to 60 °C

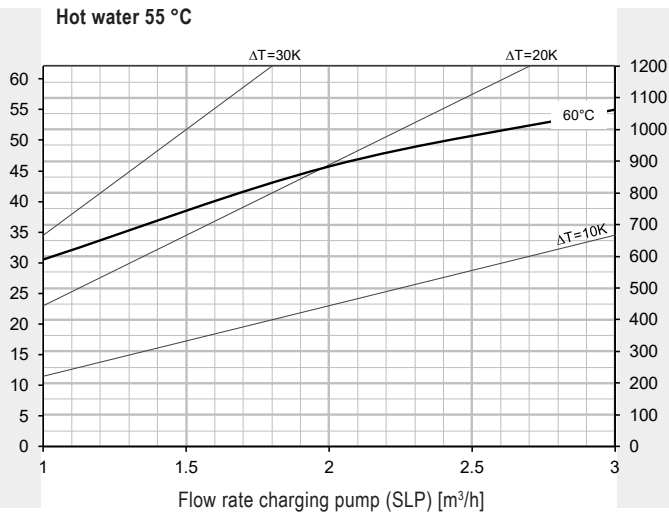
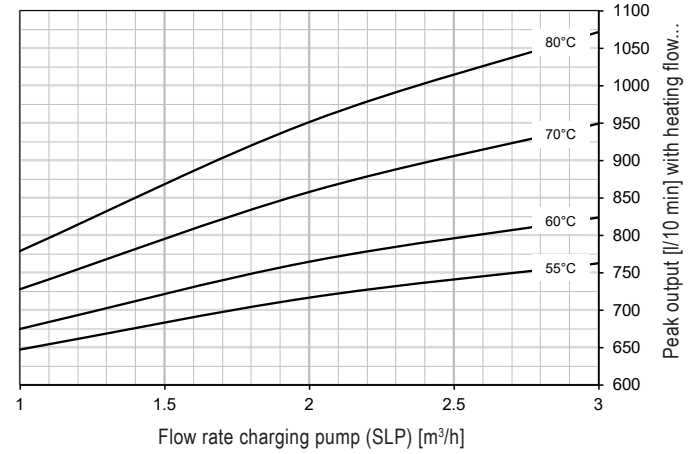
CombiVal CSR (500)

Hot water output  
Continuous output

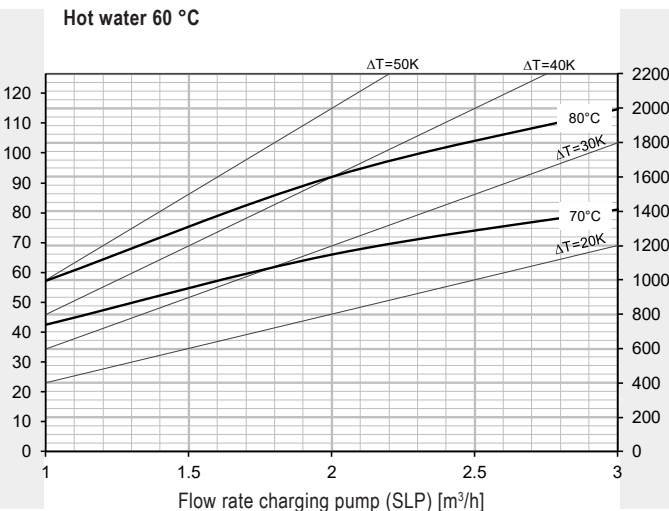
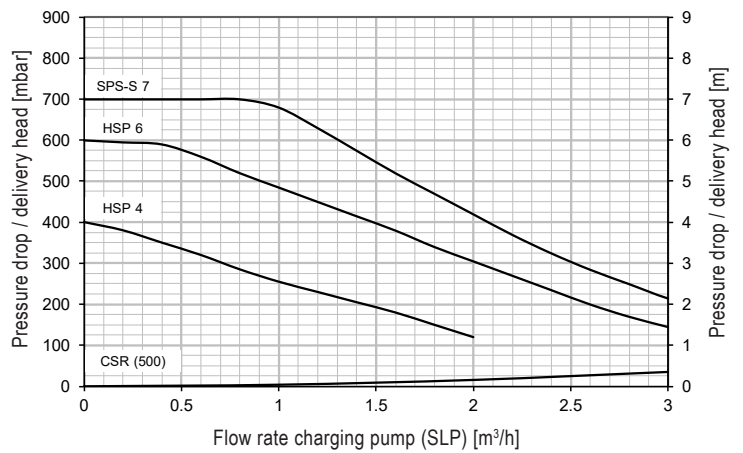
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

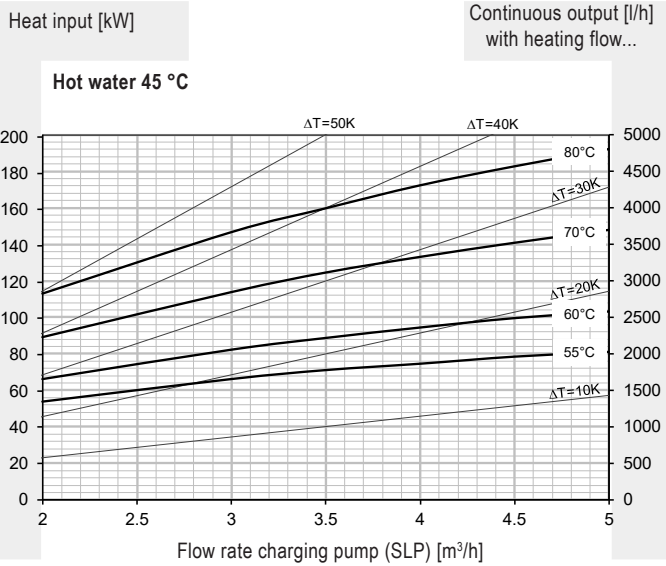


\* Calorifier heated to 60 °C

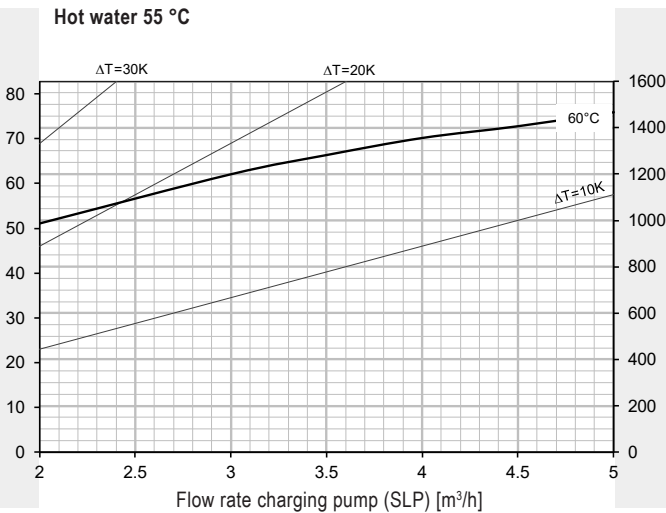
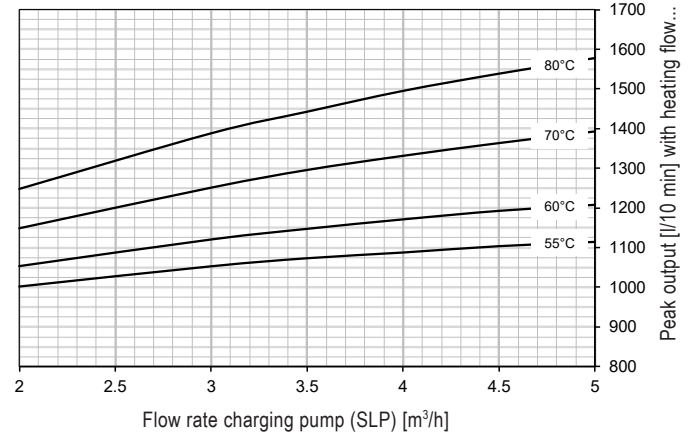
CombiVal CSR (800)

Hot water output  
Continuous output

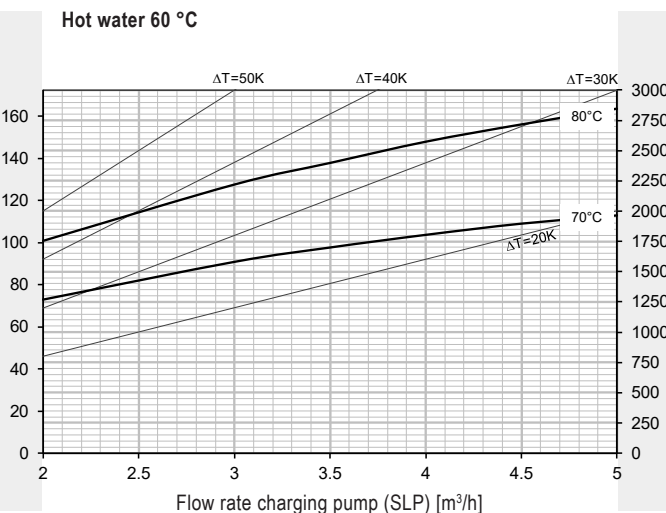
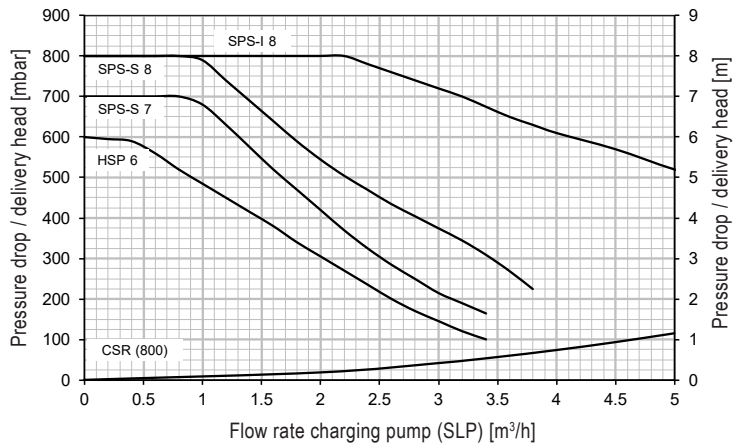
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

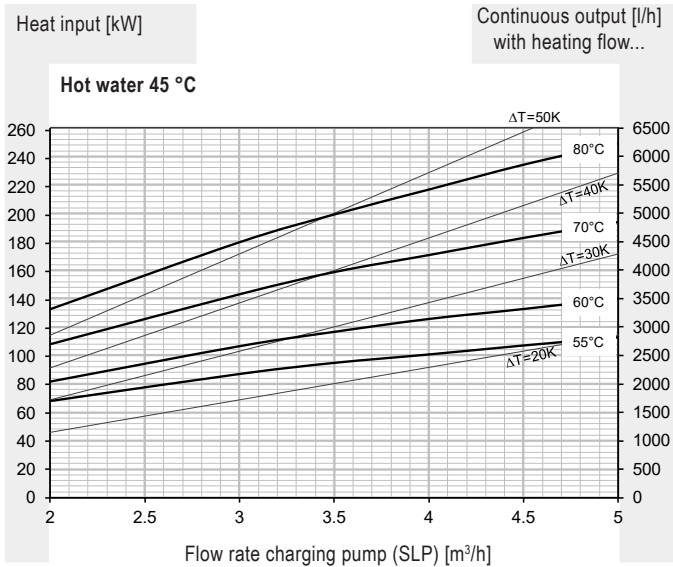


\* Calorifier heated to 60 °C

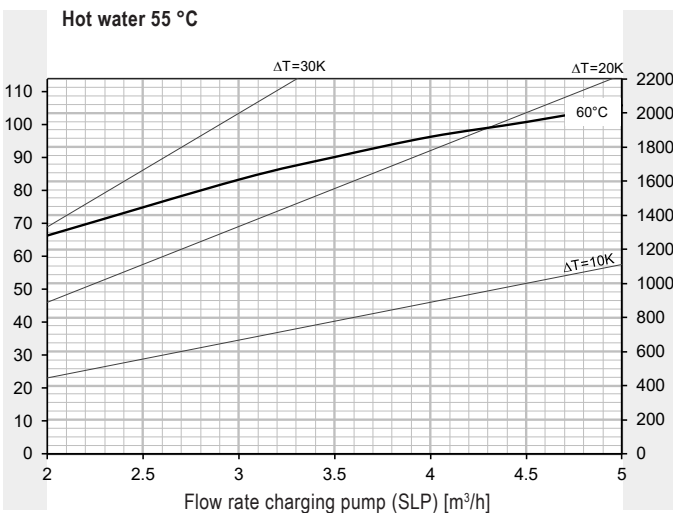
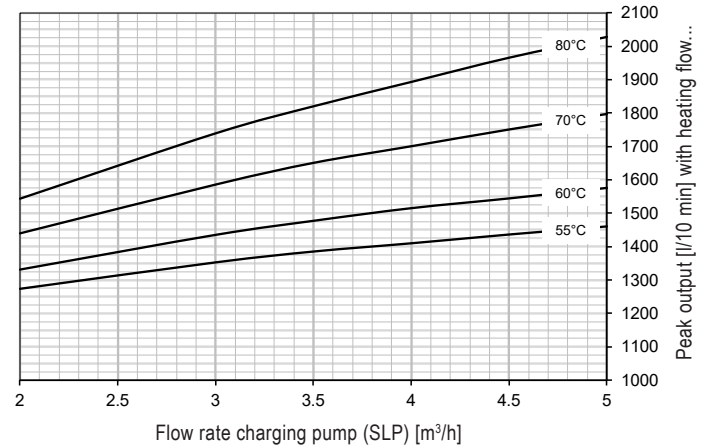
CombiVal CSR (1000)

Hot water output  
Continuous output

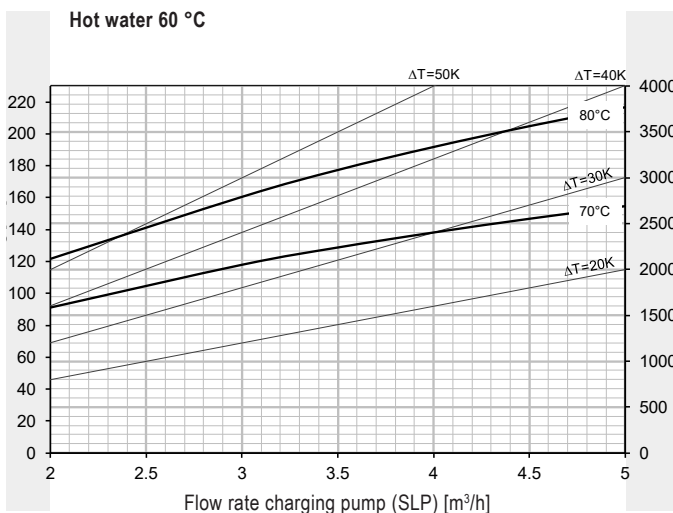
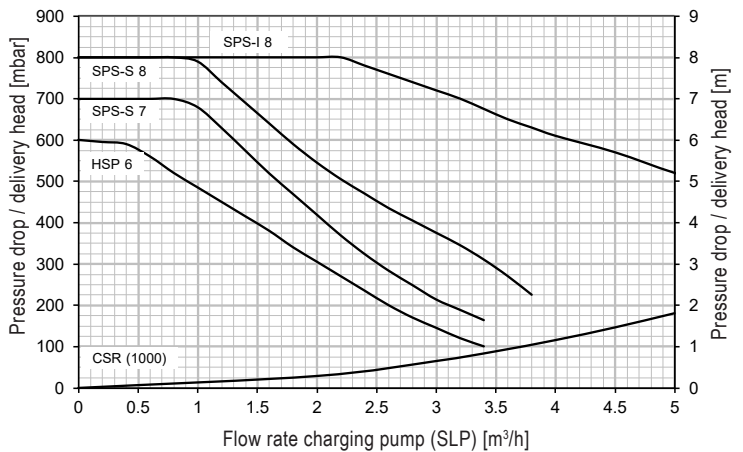
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

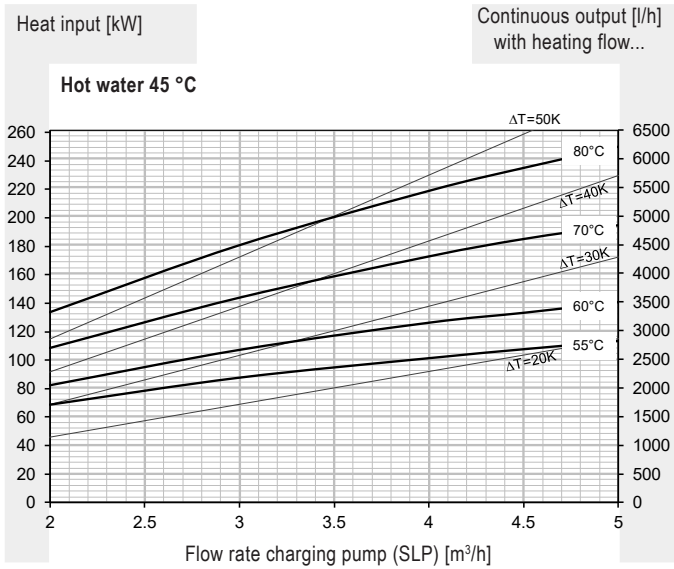


\* Calorifier heated to 60 °C

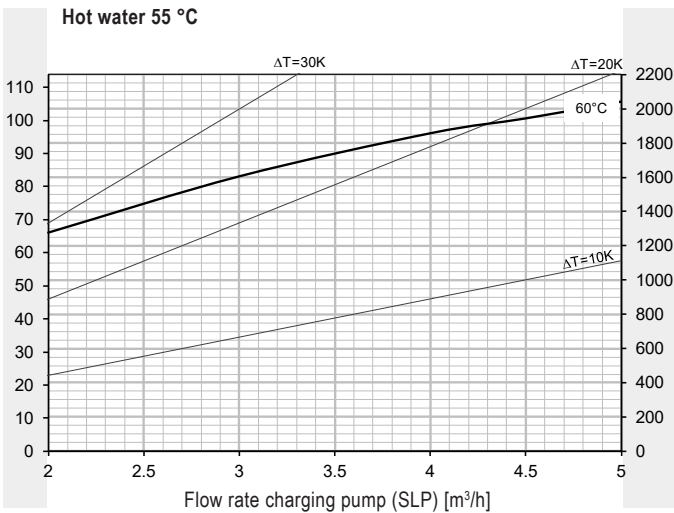
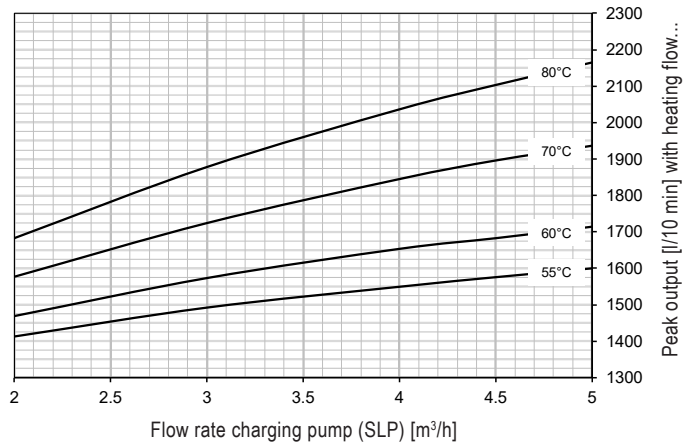
CombiVal CSR (1250)

Hot water output  
Continuous output

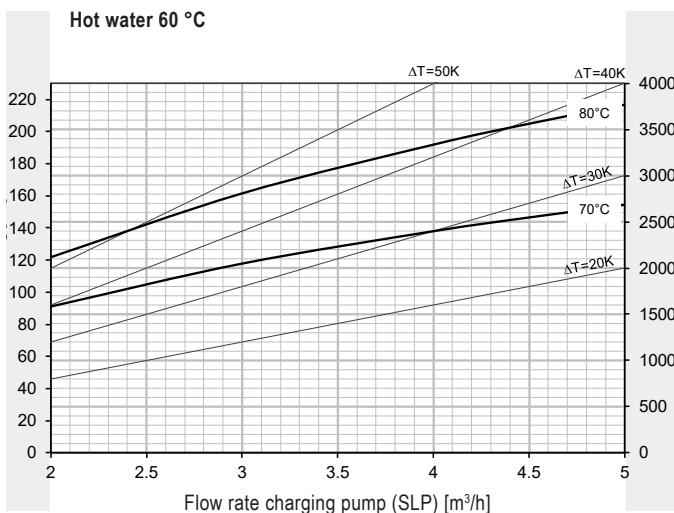
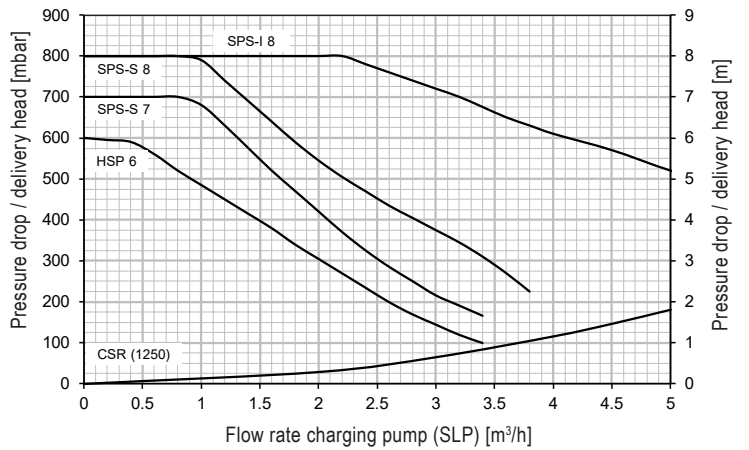
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump



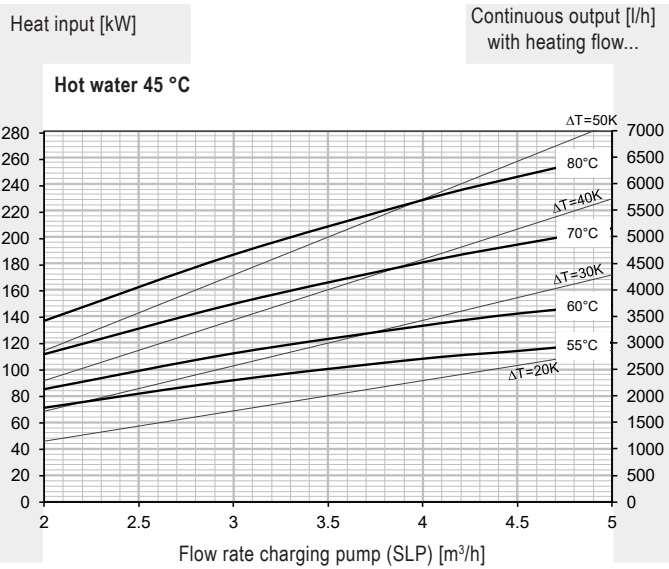
\* Calorifier heated to 60 °C



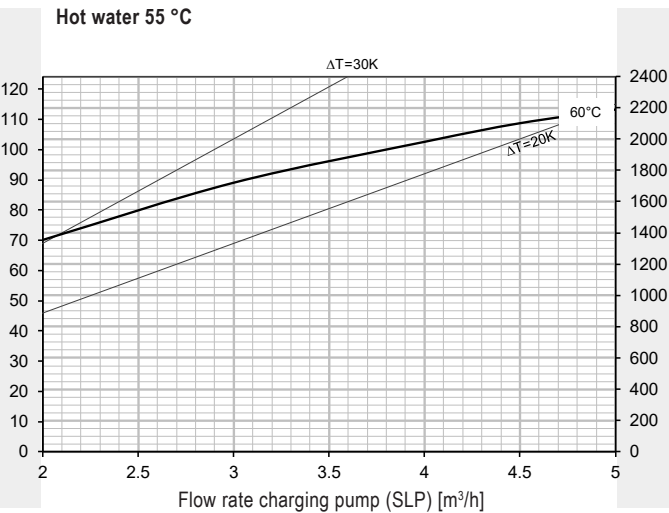
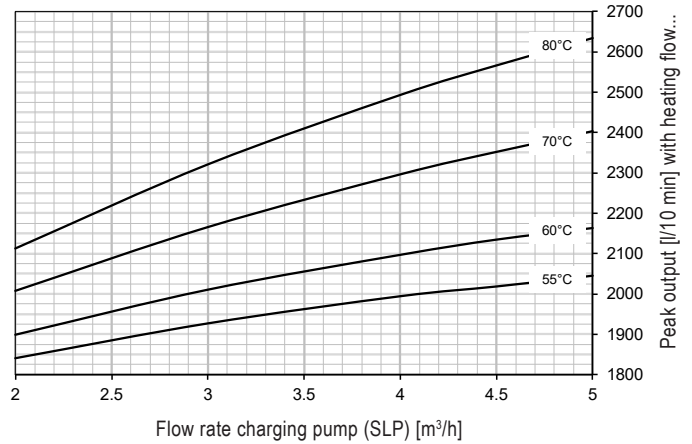
CombiVal CSR (1500)

Hot water output  
Continuous output

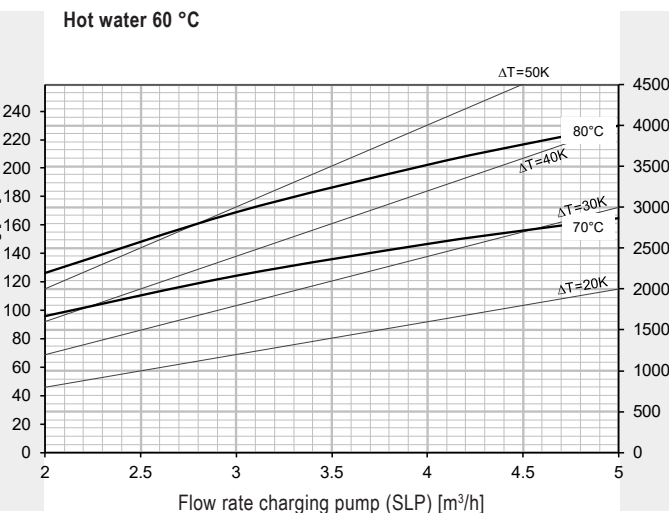
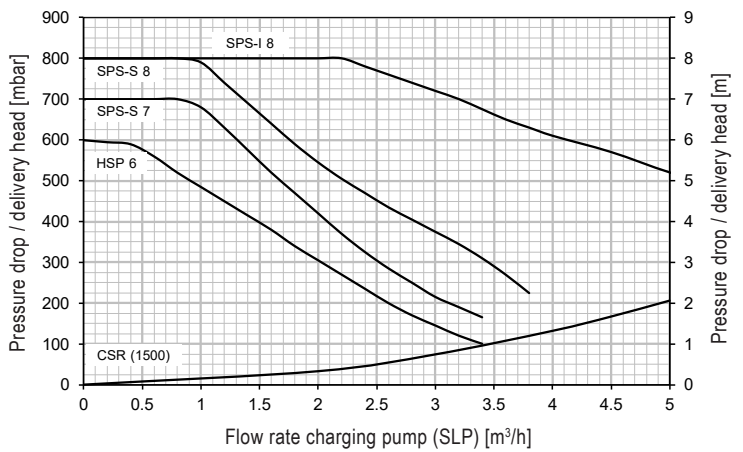
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



Pressure drop heating coil - delivery head charging pump

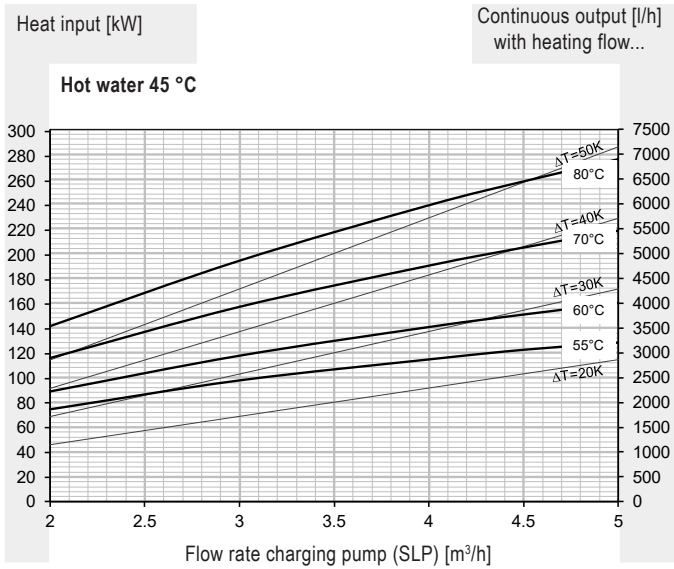


\* Calorifier heated to 60 °C

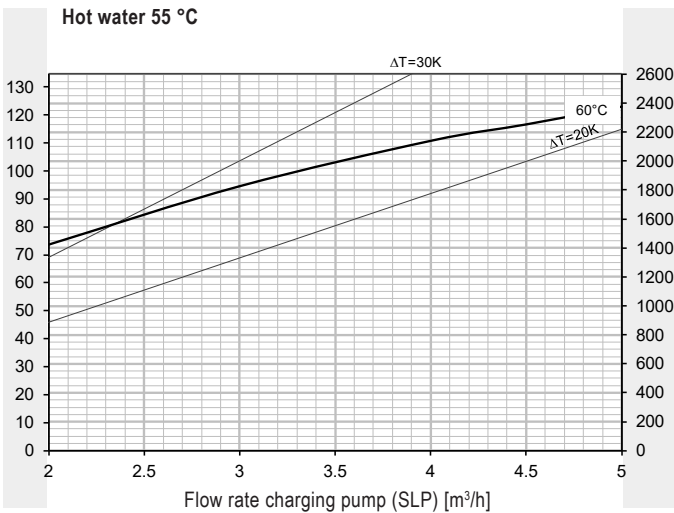
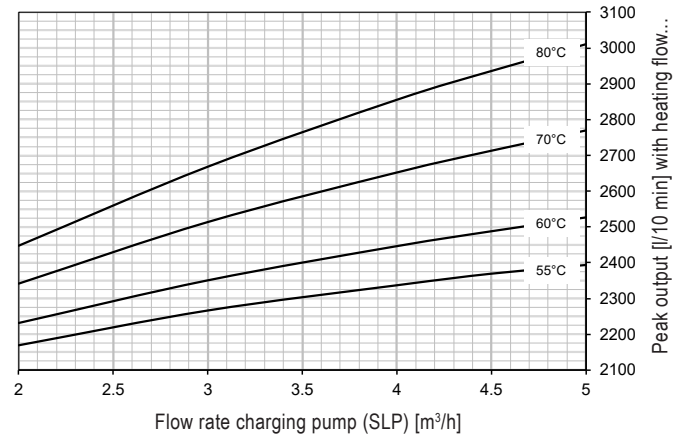
CombiVal CSR (2000)

Hot water output  
Continuous output

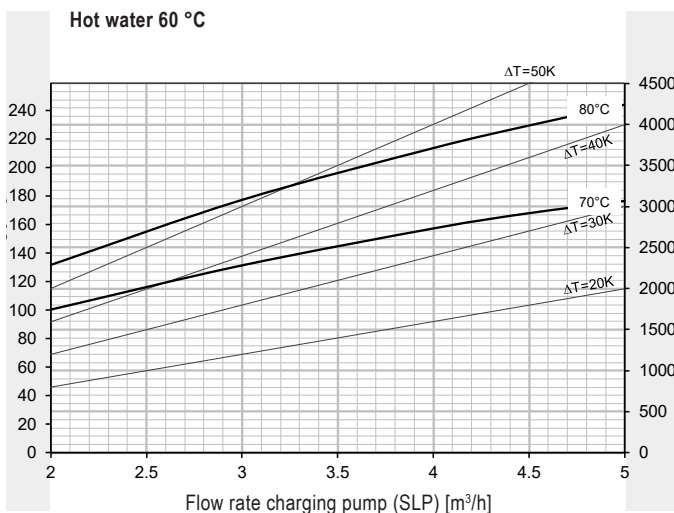
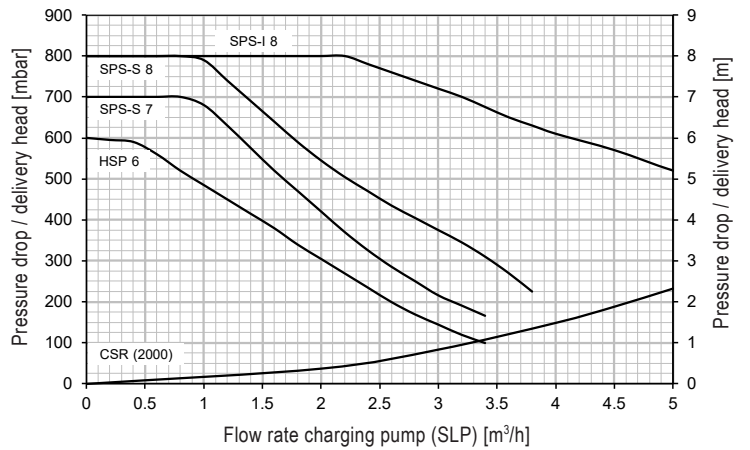
Reading example  
see engineering



10 min peak output - hot water 45 °C \*



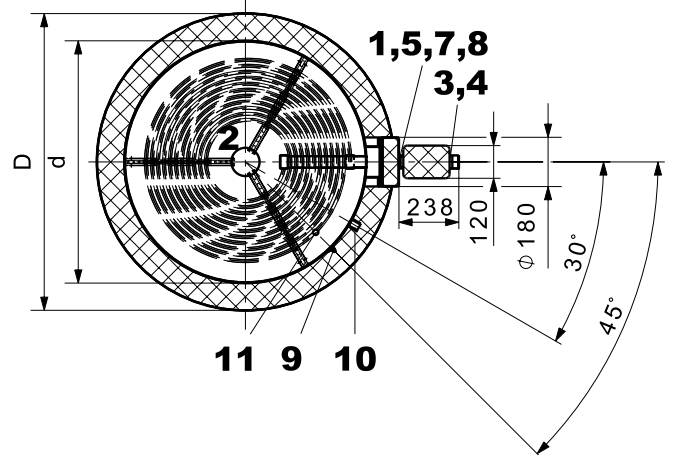
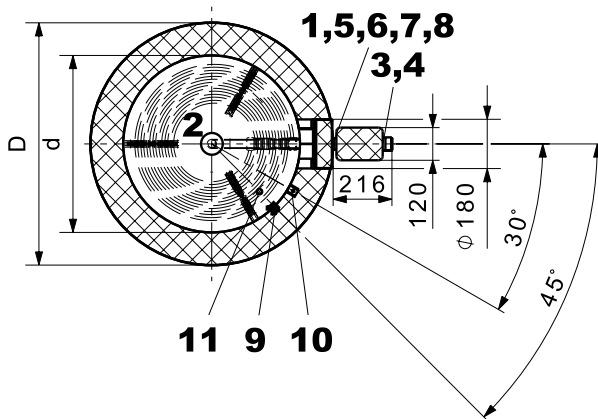
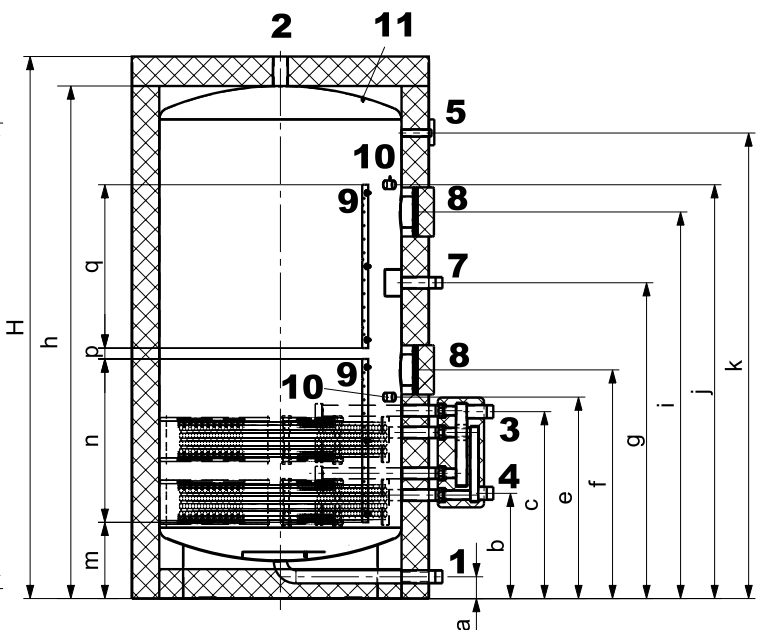
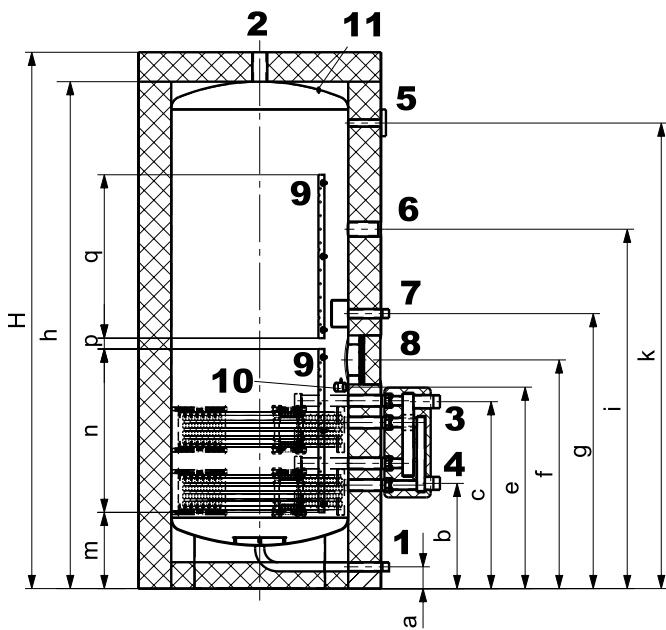
Pressure drop heating coil - delivery head charging pump



\* Calorifier heated to 60 °C

**CombiVal CSR (300-500)**  
(Dimensions in mm)

**CombiVal CSR (800-2000)**



- |  |                  |             |   |
|--|------------------|-------------|---|
| 1 Cold water   | type (300-500)   | G 1" (ET)   | 8 Hand-hole flange (flange-mounted electric heating element)                              |
|  | type (800-2000)  | G 1½" (ET)  | ø 180/110 mm, pitch circle ø 150 mm, 8 x M10  |
| 2 Hot water  |                  | Rp 1½" (IT) | 9 Sensor terminal bar 600 x 30 mm   |
| 3 Flow heating   |                  | R 1½" (ET)  | 10 Sleeve with grounding bolt for impressed current anode (perforated thermal insulation) |
| 4 Return heating   |                  | R 1½" (ET)  | type (300-800) 1 x  |
| 5 Sleeve with mounted immersion sleeve and thermometer (immersion sleeve: L = 200, inner Ø = 8 mm) |                  | Rp ½" (IT)  | type (1000-2000) 2 x  |
| 6 Connection for screw-in electric heating element   |                  | Rp 1½" (IT) | Attention: observe the installation length  |
| 7 Circulation  | type (300-500)   | G 1" (ET)   | 11 Equipotential bonding  |
|  | type (800-1250)  | G 1¼" (ET)  |   |
|  | type (1500,2000) | G 1½" (ET)  |   |

Deviations possible as a result of manufacturing tolerances. Dimensions +/- 10 mm

CombiVal type CSR	D	d	H	a	b	c	e	f	g	i	j	k	m	n	p	q	Tilting dimension
(300)	740	500	1949	80	380	690	740	840	1010	1320	-	1710	310	540	100	540	2085
(400)	840	600	1885	80	380	690	740	840	1010	1320	-	1630	310	540	100	540	2064
(500)	890	650	1970	80	380	690	740	840	1010	1320	-	1710	310	540	100	540	2162
(800)	990	790	1991	80	380	690	740	840	1160	1420	-	1710	310	540	100	540	2224
(1000)	1090	890	1991	80	380	690	740	840	1160	1420	1520	1710	310	540	100	540	2270
(1250)	1190	950	1997	80	380	690	740	840	1160	1420	1520	1710	310	540	100	540	2325
(1500)	1340	1100	2012	80	380	690	740	840	1160	1420	1520	1710	310	540	100	540	2417
(2000)	1440	1200	2046	80	380	690	740	840	1160	1420	1520	1710	310	540	100	540	2502