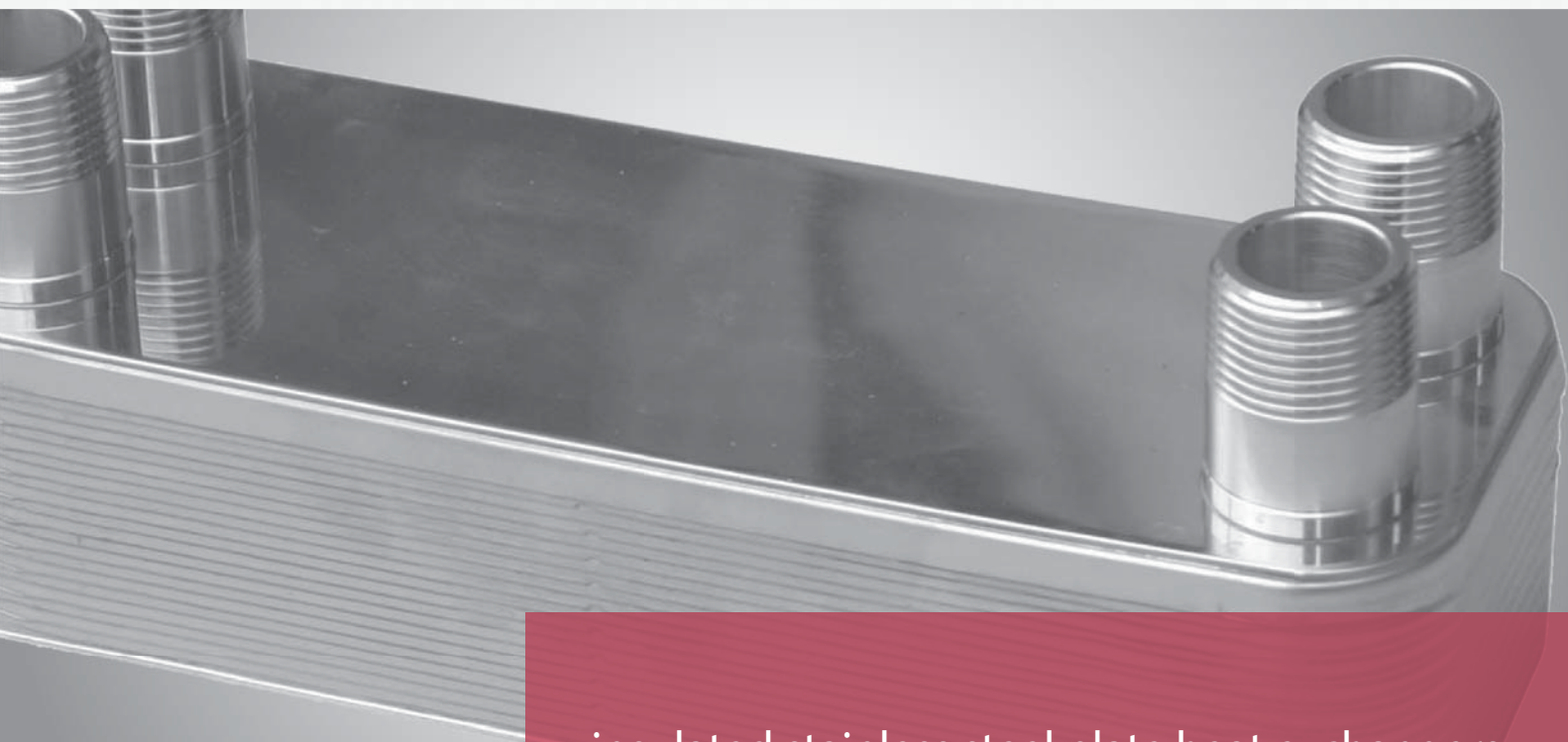


Plate Heat Exchangers



insulated stainless steel plate heat exchangers



HEAT EXCHANGERS



DV193 Plate Heat Exchanger

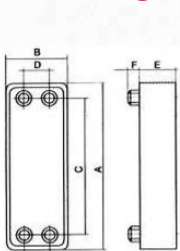
Plate heat exchangers designed for effective heat transfer between various fluids. They are made of thin pressed stainless-steel plates and soldered with brass. Thermal insulation in EPDM rubber that resists temperatures up to 175 °C in short term is added on the heat exchangers, reducing thermal loss.

DV193 line is suitable primarily for **thermal stores or storage water heaters** heated by **solar thermal systems**.

Technical Data

MATERIAL	AISI 316L
MAX. WORKING PRESSURE	29.4 bar
MAX. WORKING TEMPERATURE	150 °C permanent, 175 °C short term (1hour)
CONNECTION DEIMENSIONS	3/4" M

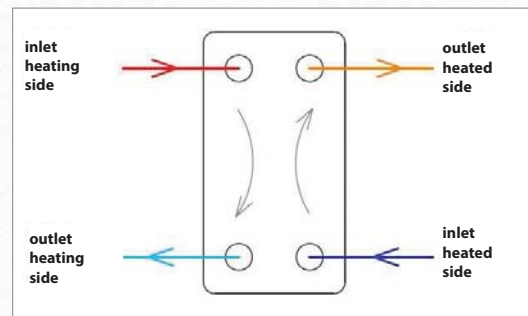
Drawing



Dimensions with insulation

HEIGHT (A)	223 mm
WIDTH (B)	113 mm
PITCH (C)	154 mm
PITCH (D)	42 mm
THICKNESS (E)	by model see table below
SOCKET HEIGHT (F)	20 mm

Connection Diagram

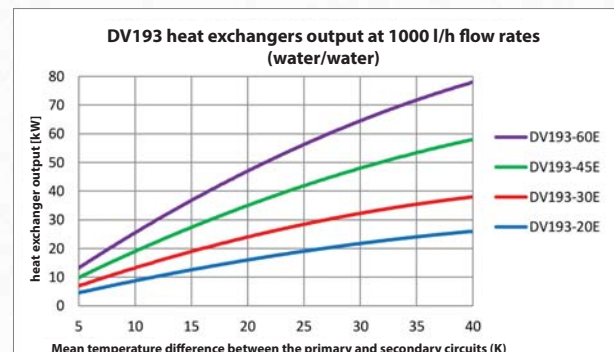
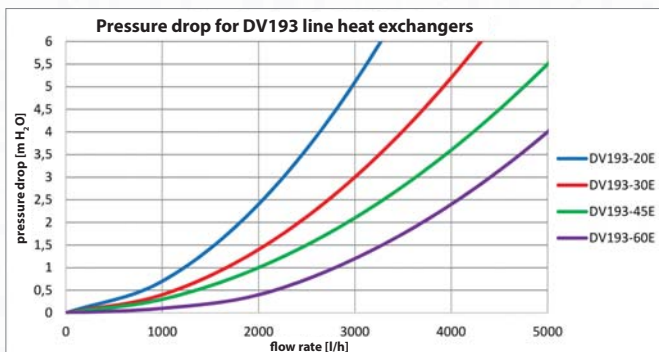


Models

		DV193-20E	DV193-30E	DV193-45E	DV193-60E
NUMBER OF PLATES	--	20	30	45	60
HEAT TRANSFER SURFACE AREA	sqm	0.28	0.42	0.63	0.84
FLUID VOLUME	l	0.32	0.45	0.62	0.87
WEIGHT - WITH/WITHOUT INSULATION	kg	1.7/1.6	2.2/2.1	2.9/2.8	3.7/3.6
THICKNESS (E)	mm	85	109	144	179
MAX. RECOMMENDED SURFACE AREA OF SOLAR PANELS*	sqm	6	10	16	21
CODE	--	9548	9549	9550	9551

* at $\Delta t_{mean} = 10 K$, the primary side – Solarten, flow rate = 1 l/min per sqm, secondary side = water, flow rate = min. 1000 l/h

Graphs



HEAT EXCHANGERS



DV285 Plate Heat Exchanger

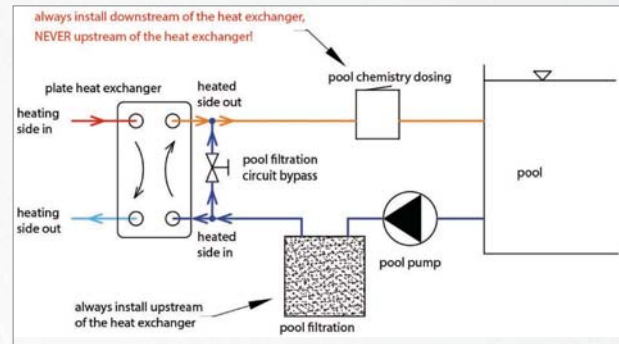
Plate heat exchangers designed for effective heat transfer between various fluids. They are made of thin pressed stainless-steel plates and soldered with brass. Thermal insulation in EPDM rubber that resists temperatures up to 175 °C in short term is added on the heat exchangers, reducing thermal loss.

DV285 line is suitable primarily for **pool heating by a solar thermal system, boiler or a heat pump, and for instantaneous DHW heating (in a thermal store or boiler).**

Technical Data

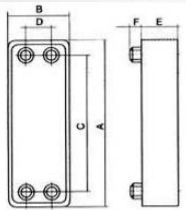
MATERIAL	AISI 316L
MAX. WORKING PRESSURE	29.4 bar
MAX. WORKING TEMPERATURE	150 °C permanent, 175 °C short term (1hour)
CONNECTION DIMENSIONS	1" M

Connection Diagram



Drawing

Dimensions with insulation



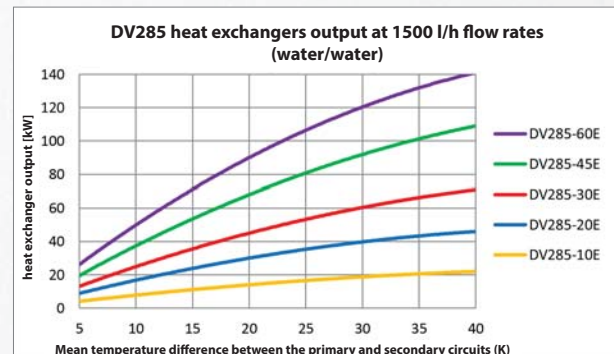
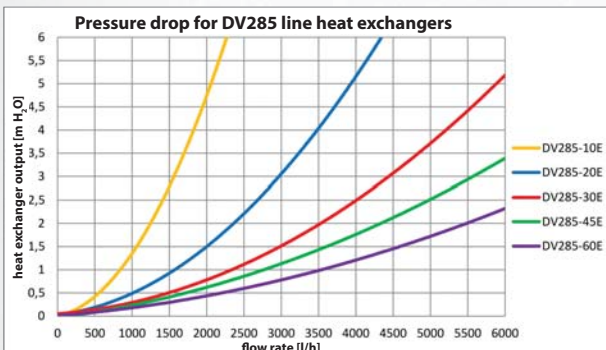
HEIGHT (A)	310 mm
WIDTH (B)	130 mm
PITCH (C)	230 mm
PITCH (D)	50 mm
THICKNESS (E)	by model see table below
SOCKET HEIGHT (F)	18 mm

Models

		DV285-10E	DV285-20E	DV285-30E	DV285-45E	DV285-60E
NUMBER OF PLATES	--	10	20	30	45	60
HEAT TRANSFER SURFACE AREA	sqm	0.27	0.54	0.81	1.22	1.62
FLUID VOLUME	l	0.34	0.60	0.85	1.28	1.65
WEIGHT - WITH/WITHOUT INSULATION	kg	2.4/2.3	3.3/3.2	5.1/5.0	5.5/5.4	7.0/6.9
THICKNESS (E)	mm	70	95	110	140	175
MAX. RECOMMENDED SURFACE AREA OF SOLAR PANELS*	sqm	4	10	15	23	31
CODE	--	9552	9553	9554	9555	9556

* at $\Delta t_{mean} = 10 K$, the primary side – Solarten, flow rate = 1 l/min per sqm, secondary side = water, flow rate = min. 1500 l/h

Graphs



HEAT EXCHANGERS



DV503 Stainless Steel Plate Heat Exchangers

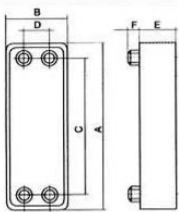
Plate heat exchangers designed for efficient heat transfer between various fluids. They are made of thin, pressed high quality stainless-steel sheets and soldered with copper. In order to reduce heat loss they are fitted with EPDM insulation that resists up to 175 °C temperature in short term.

Considering its design, the DV503 series is suitable for **continuous hot water heating or large solar thermal systems**. We calculate the heat exchanger size on an individual basis upon request, based on specific parameters of the heating system in question.

Technical Data

MATERIAL	AISI 316L
MAX. WORKING PRESSURE	12 bar
MAX. WORKING TEMPERATURE	permanent 150 °C, short term (1 h) 175 °C
CONNECTION SIZE	1" M

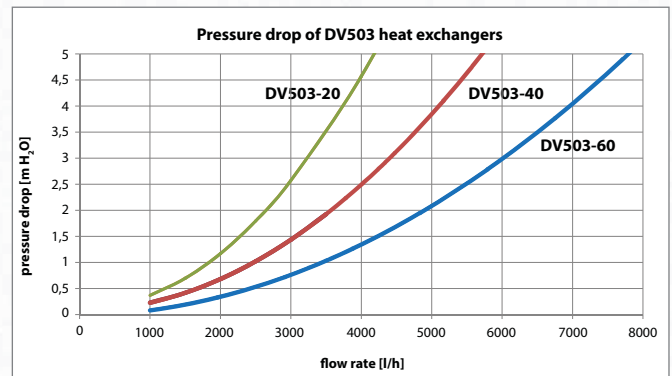
Drawing



Dimensions with insulation

HEIGHT (A)	533 mm
WIDTH (B)	153 mm
PITCH (C)	445 mm
PITCH (D)	70 mm
THICKNESS (E)	by model see chart below
PORT LENGTH (F)	23 mm

Chart



Models

		DV503-20E	DV503-40E	DV503-60E
NUMBER OF PLATES	--	20	40	60
HEAT TRANSFER SURFACE AREA	sqm	1.1	2.2	3.3
FLUID VOLUME	l	1.2	2.3	3.4
WEIGHT WITH/WITHOUT INSULATION	kg	11/9	14/13	19/17
THICKNESS (E)	mm	90	130	195
CODE	--	11045	10495	10496

HEAT EXCHANGERS



DV800 Stainless Steel Plate Heat Exchangers

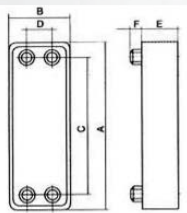
Plate heat exchangers designed for efficient heat transfer between various fluids. They are made of thin, pressed high quality stainless-steel sheets and soldered with copper. In order to reduce heat loss they are fitted with EPDM insulation that resists up to 175 °C temperature in short term.

Considering its design, the DV800 series is suitable for **large solar thermal systems, district heating transfer stations, or high-output systems**. We calculate the heat exchanger size on an individual basis upon request, based on specific parameters of the heating system in question.

Technical Data

MATERIAL	AISI 316L
MAX. WORKING PRESSURE	by model see chart below
MAX. WORKING TEMPERATURE	permanent 150 °C, short term (1 h) 175 °C
CONNECTION SIZE	2" M

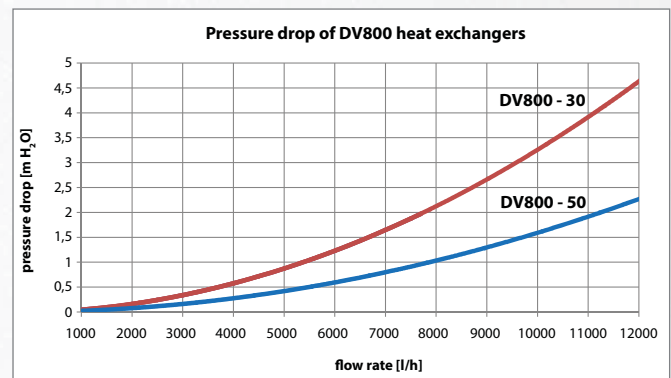
Drawing



Dimensions with insulation

HEIGHT (A)	605 mm
WIDTH (B)	310 mm
PITCH (C)	475 mm
PITCH (D)	185 mm
THICKNESS (E)	by model see chart below
PORT LENGTH (F)	35 mm

Chart



Models

		DV800-30E	DV800-50E
NUMBER OF PLATES	--	30	50
HEAT TRANSFER SURFACE AREA	sqm	4.8	8.0
FLUID VOLUME	l	4.4	7.7
WEIGHT WITH/WITHOUT INSULATION	kg	34/31	47/44
THICKNESS (E)	mm	115	165
MAX. WORKING PRESSURE	bar	10	6
CODE	--	10490	10491

KITS WITH PLATE HEAT EXCHANGERS

KITS WITH WILO YONOS CIRCULATION PUMP

DV193 or DV285 Plate Heat Exchangers amended with a load unit consisting of a Wilo Yonos Para high-efficiency circulation pump, 2 threaded fittings with shut-off ball valves + el. wall plug w. switch and LED.



	Code
DV193-30E insulated & CS KK VYP W Load Unit	13199
DV193-45E insulated & CS KK VYP W Load Unit	13200
DV285-30E insulated & CS KK VYP W Load Unit	13204
DV285-45E insulated & CS KK VYP W Load Unit	13205

KITS FOR SOLAR HEATING OF STORES AND TANKS WITH NO SOLAR HEAT EXCHANGER

Heat Exchanger and Load Unit Kits differ in the heat exchanger performance and circulation pump type. The Kits with Grundfos UPM3 DHW pump are suitable for solar heating of drinking water in HW storage tanks, while the Kits with Wilo Yonos Para 25/6 are designed for solar heating of heating water in thermal stores.



Kit with heating water pump

Kits with heating water pump	Code
DV193-20E with CSE OTS ZV W Load Unit	15945
DV193-30E with CSE OTS ZV W Load Unit	15946



Kit with drinking water pump

Kits with drinking water pump	Code
DV193-20E with CSE TV ZV G Load Unit	16065
DV193-30E with CSE TV ZV G Load Unit	16066
DV193-45E with CSE TV ZV G Load Unit	17148
DV193-60E with CSE TV ZV G Load Unit	17149

