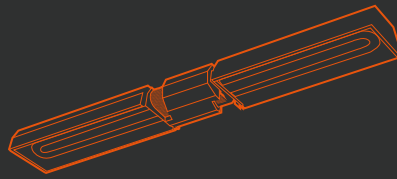
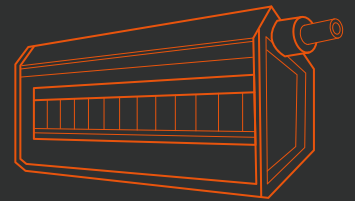


Gas-Infrared-Tube Heaters



Hydrogen Industrial Heaters



Luminous Heaters

Gas Infrared Heating Systems

Innovative | Efficient | Comfortable



MADE
IN
GERMANY

Schwank offers suitable solutions for almost every challenge: whether heating from a height of 55 m in a stadium, uniform heat distribution of over 50,000 m² of logistics space or temperature tolerances in sensitive production environments of up to 1.5K.

Our competence, especially in terms of efficiency, durability and comfort provides confidence.

Among others, Schwank is trusted by:



Heating & Climate Systems for the Industry, Commerce and Logistics

H₂ Industrial Heater



geniumSchwank

Gas-Infrared-Heaters



Tube Heaters



Luminous Heaters

Electric Infrared Heaters



eSchwank

Electric Heat Pumps



Air-to-Air Heat Pumps



Air-to-Water Heat Pumps



SchwankAir

Warm Air Heaters

Air Handling Units



aeroSchwank

MonsterFans



MonsterFans

Air Curtains



SchwankAir

Control Technology



SchwankControlTouch

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geniumSchwank

H₂ Industrial Heaters



Min. connection pressure

	15 - 48 kW
Natural Gas H	15 mbar
Natural Gas L	20 mbar
Propane	40 mbar
Hydrogen	40 mbar



Product features:

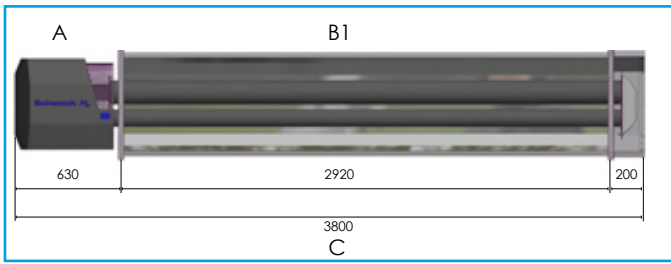
- The world's **first** and **only** industrial heating based on tube heating that can be operated with **100% hydrogen today**
- Hybrid capability: operation first with fossil gases, later possible with 100% hydrogen
- Up to 99% seasonal efficiency*
- Highly reflective FERAN reflector
- Reflector housing fully insulated to minimize convection heat losses
- Unique reflector geometry (95 % degree of reflection)
- Continuously modulating as standard, from 50 % to 100 % for ideal power adjustment to seasonal heating requirements
- ModBus capability for optimized controllability and connectivity

Technical Data

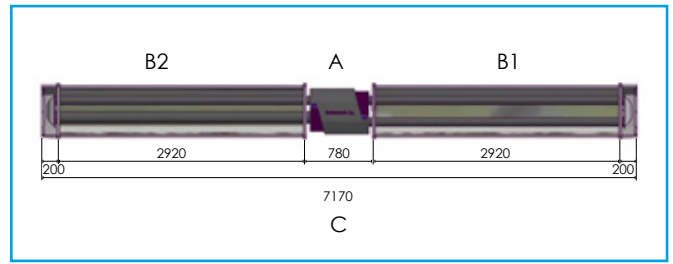
	315U	320U	630U	635U	950U
Nominal heat load (kW), NCV	15,0	20,0	27,0	35,0	48,0
Minimum heat load (kW), NCV	11,5	15,0	20,5	26,5	36,0
Th. calorific value, GCV (%), max. load	94,3	93,6	94,8	93,1	93,9
Th. calorific value, GCV (%), partial load	96,1	95,5	96,0	95,3	95,6
Radiant factor, NCV (%), nominal load	81,9	82,0	81,1	82,2	82,0
Radiant factor, NCV (%), partial load	80,6	80,8	80,0	80,3	81,1
Seasonal Efficiency (%)	97,3	97,3	98,9	98,9	97,6

* measured according to DIN EN 416 at DVGW test laboratory (gS-635/U)

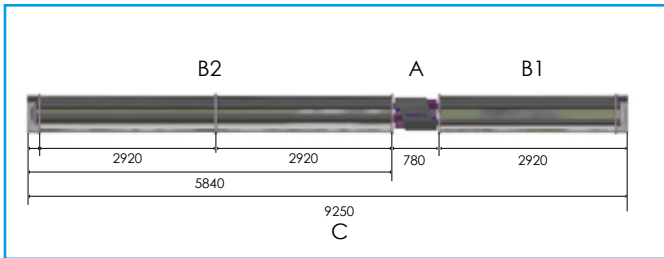
Dimensions geniumSchwank 315U/320U



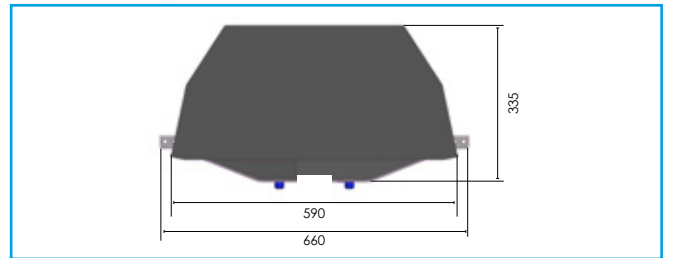
Dimensions geniumSchwank 630U/635U



Dimensions geniumSchwank 950U



Dimensions geniumSchwank



Dimensions	315U	320U	630U	635U	950U
A (mm)	630		780		780
B1 (mm)	2920		2920		2920
B2 (mm)	-		2920		5840
C (mm)	3750		7020		9940
Weight (kg)	110		232		285

	315U	320U	630U	635U	950U
Connected load natural gas H / G 20 (m³/h) **	1,50	2,00	2,80	3,51	4,81
Connected load natural gas L / G 25 (m³/h) ***	1,76	2,33	2,92	4,08	5,60
Connected load propane / G 31 (kg/h) ****	1,17	1,55	2,17	2,72	3,73
Connected load hydrogen (kg/h) *****	5,0	6,7	9,0	11,7	16,0
Max. gas connection pressure (natural gas / propane)	60 mbar				
Flue gas connection (mm)	Ø 100				
Electric power consumption (W)	30,0	45,0	55,0	75,0	175,0
Protection class	IP 20				
Gas connection (external)	R 1/2"				R 3/4"
Electrical connection	230 V / Hz 50 ~				

** $H_{i,n} = 9,97 \text{ kWh/m}^3$ *** $H_{i,n} = 8,57 \text{ kWh/m}^3$ **** $H_{i,n} = 12,87 \text{ kWh/kg}$ ***** $H_{i,n} = 2,995 \text{ kWh/kg}$

calorSchwank

Tube Heaters



Product features:

- Fire-aluminised reflector for up to 71% radiant factor*
- Fully modulating: adapt to seasonal heat loss
- ModBus capability for optimised controllability and connectivity



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Technical Data: calor L

	15 M L	20 M L	30 M L	40 M L	50 M L	60 M L
Nominal heat load (kW), NCV	15,0	19,0	29,0	39,0	49,0	60,0
Minimum heat load (kW), NCV	11,2	14,3	22,0	30,0	38,0	48,0
Th. calorific value, GCV (%), max. load	81,3	81,2	81,3	81,3	82,1	82,5
Th. calorific value, GCV (%), partial load	81,0	80,8	81,0	80,9	82,0	82,1
Radiant factor, NCV (%), nominal load	67,2	70,2	69,8	72,7	71,4	70,2
Radiant factor, NCV (%), partial load	66,7	69,5	69,2	71,8	70,8	69,5
Seasonal Efficiency (%)	83,9	85,4	85,8	87,0	87,8	87,2

Technical Data: calor U

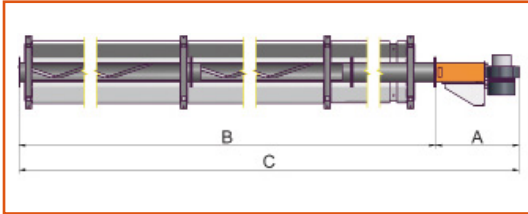
	15 M U	20 M U	30 M U	40 M U	50 M U	60 M U
Nominal heat load (kW), NCV	15,0	19,0	29,0	39,0	49,0	60,0
Minimum heat load (kW), NCV	11,2	14,3	22,0	30,0	38,0	48,0
Th. calorific value, GCV (%), max. load	84,1	84,1	83,4	83,7	83,1	83,4
Th. calorific value, GCV (%), partial load	84,5	84,6	83,0	84,0	82,7	83,1
Radiant factor, NCV (%), nominal load	69,8	70,2	70,2	69,2	70,8	70,6
Radiant factor, NCV (%), partial load	69,2	70,8	71,0	68,3	70,0	69,7
Seasonal Efficiency (%)	88,8	89,9	88,7	88,6	88,3	88,4

* measured according to DIN EN 416 at DVGW test laboratory (cS-50m/U)

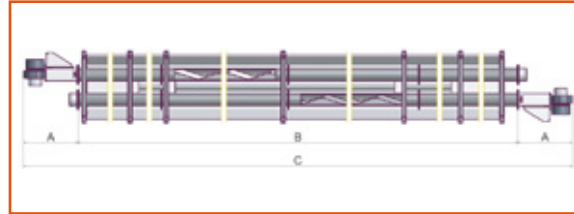
Min. connection pressure

	15 - 50 kW / 80 - 100 kW	60 kW / 120 kW
Natural Gas H	15 mbar	20 mbar
Natural Gas L	20 mbar	30 mbar
Propane	40 mbar	40 mbar

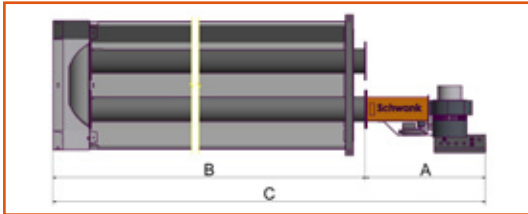
Dimensions calorSchwank L



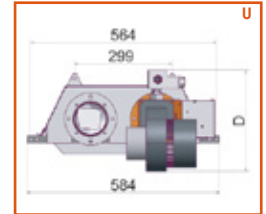
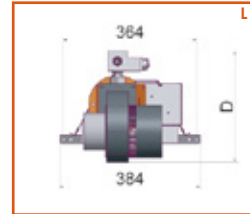
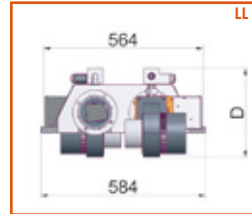
Dimensions calorSchwank LL



Dimensions calorSchwank U



Dimensions calorSchwank LL / L / U



Dimensions	15 U	20 U	30 U	40 U	50 U	60 U	15 L	20 L	30 L	40 L	50 L	60 L	80 LL	100 LL	120 LL
A (mm)	502				502		502			502		502	502	502	
B1 (mm)	3050	4540	6100	9000	12 205	13 695	6100	9150	13 620	18 000	19 570	13 620	18 000	19 490	20 494
C (mm)	3708	5197	6759	9657	12 707	14 197	6602	9652	14 122	18 502	20 072	14 622	19 004	20 494	20 494
D (mm)	345				345		345			345		345	345	345	
Weight (kg)	54	75	92	130	166	185	57	57	80	114	142	153	165	225	245

	15 U/L	20 U/L	30 U/L	40 U/L	50 U/L	60 U/L
Connected load natural gas H / G 20 (m ³ /h)**	1,50	1,91	2,91	3,91	4,92	6,02
Connected load natural gas L / G 25 (m ³ /h)***	1,75	2,22	3,38	4,55	5,72	7,00
Connected load propane / G 31 (kg/h)****	1,17	1,48	2,25	3,03	3,81	4,66
Max. gas connection pressure (natural gas / propane)	60 mbar					
Flue gas connection (mm)	Ø 100					
Electric power consumption (W)	104			91		
Protection class	IP 20					
Gas connection (external)	R 1/2"			R 3/4"		
Electrical connection	230 V / Hz 50 ~					

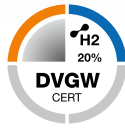
** H_{i,n} = 9,97 kWh/m³ *** H_{i,n} = 8,57 kWh/m³ **** H_{i,n} = 12,87 kWh/kg ***** H_{i,n} = 2,995 kWh/kg

infraSchwank

Tube Heaters



MADE IN GERMANY



Product features:

- Fire-aluminised reflector for up to 60.2% radiant factor*
- Fully modulating: adapt to seasonal heat loss
- ModBus capability for optimised controllability and connectivity

Technical Data

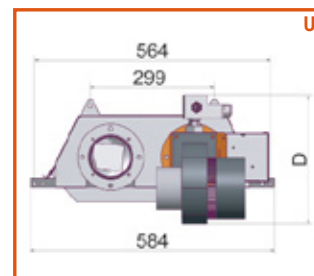
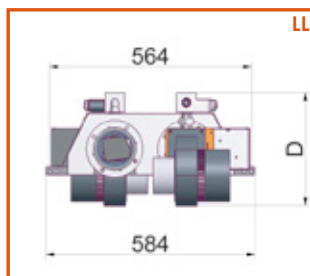
	15/1 U	15 M+U	20/1 U	20 M+U	30/1 U	30 M+U	40/1 U	40 M+U	50/1 U	50 M+U	60/1 U	60 M+U
Nominal heat load (kW), NCV	15,0	15,0	19,0	19,0	29,0	29,0	39,0	39,0	49,0	49,0	60,0	60,0
Minimum heat load (kW), NCV	/	11,2	/	14,3	/	22,0	/	30,0	/	38,0	/	48,0
Th. calorific value, GCV (%), max. load	82,9	82,9	83,2	83,2	82,6	82,6	82,7	82,7	83,2	83,2	82,8	82,8
Th. calorific value, GCV (%), partial load	/	83,2	/	83,2	/	83,0	/	83,2	/	83,5	/	83,1
Radiant factor, NCV (%), nominal load	55,7	55,7	57,6	57,6	59,3	59,3	57,8	57,8	58,2	58,2	57,6	57,6
Radiant factor, NCV (%), partial load	/	55,1	/	57,1	/	58,8	/	57,2	/	57,7	/	57,0
Seasonal Efficiency (%)	77,0	80,2	78,7	81,6	79,5	82,7	79,0	82,1	79,9	82,8	79,3	81,8

* measured according to DIN EN 416 at DVGW test laboratory (iS-50m/U)

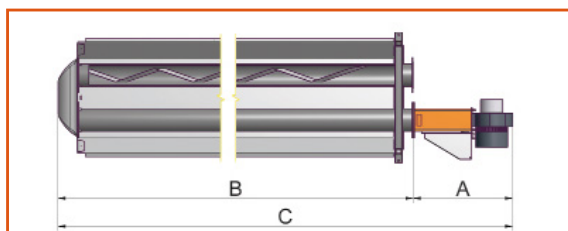
Min. connection pressure

	15 - 50 kW / 80 - 100 kW	60 kW / 120 kW
Natural Gas H	15 mbar	20 mbar
Natural Gas L	20 mbar	30 mbar
Propane	40 mbar	40 mbar

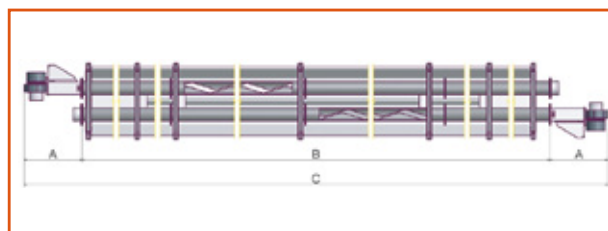
Dimensions infraSchwank LL / U



Dimensions infraSchwank U



Dimensions infraSchwank LL



Dimensions	15 U	20 U	30 U	40 U	50 U	60 U	80 LL	100 LL	120 LL
A (mm)	502				502		502	502	
B1 (mm)	3138	4628	6188	9088	12 138	13 627	13 620	18 000	19 490
C (mm)	3640	5130	6690	9590	12 640	14 130	14 622	19 004	20 494
D (mm)	345				345		345	345	
Weight (kg)	54	75	92	130	166	185	165	225	245

	15 U	20 U	30 U	40 U	50 U	60 U
Connected load natural gas H / G 20 (m³/h)**	1,50	1,91	2,91	3,91	4,92	6,02
Connected load natural gas L / G 25 (m³/h)***	1,75	2,22	3,38	4,55	5,72	7,00
Connected load propane / G 31 (kg/h)****	1,17	1,48	2,25	3,03	3,81	4,66
Max. gas connection pressure (natural gas / propane)	60 mbar					
Flue gas connection (mm)	Ø 100					
Electric power consumption (W)	104				91	
Protection class	IP 20					
Gas connection (external)	R 1/2"				R 3/4"	
Electrical connection	230 V / Hz 50 ~					

** H_{in} = 9,97 kWh/m³ *** H_{in} = 8,57 kWh/m³ **** H_{in} = 12,87 kWh/kg ***** H_{in} = 2,995 kWh/kg

supraSchwank

Luminous Heaters



MADE IN GERMANY



Product features:

- Super low NOx (13 mg/kWh)
- Fully insulated - for up to 81% radiant factor*
- Patented delta mixing chamber for preheating of the gas-air mixture
- Fully modulating: adapt to seasonal heat loss
- Radiant grid
- ModBus capability for optimised controllability and connectivity

Min. connection pressure

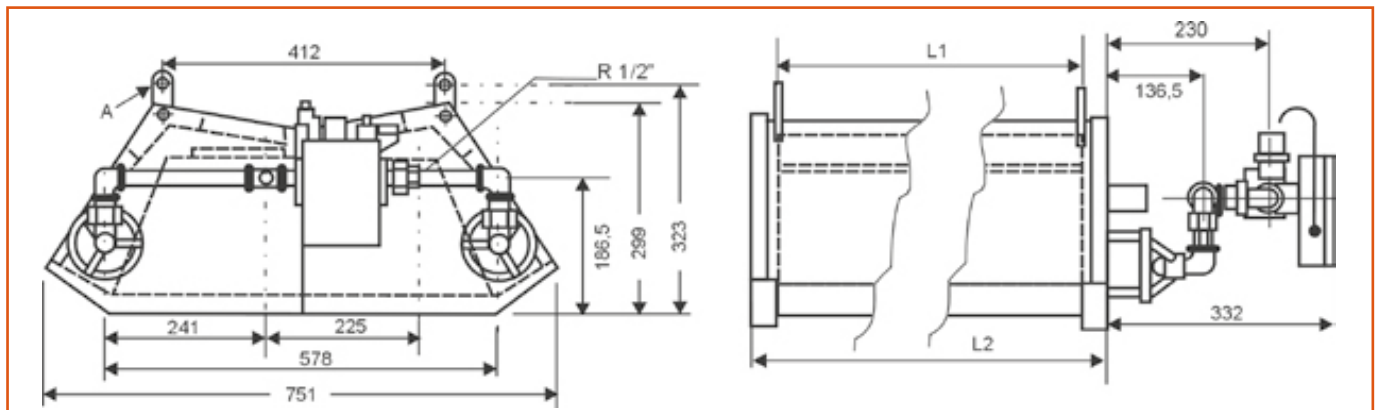
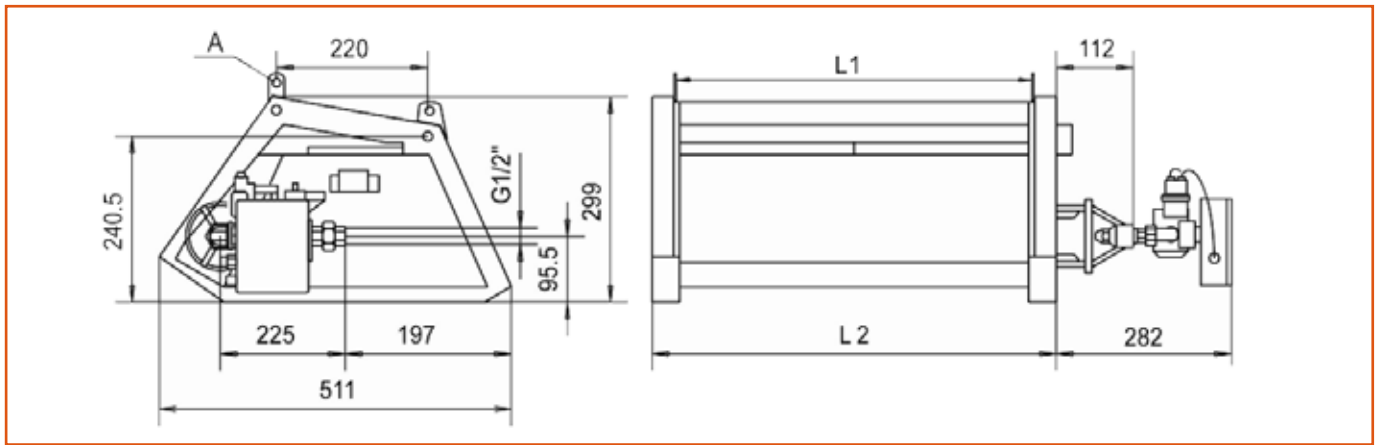
	Single-stage	Step-less modulation
Natural Gas H	16 mbar	45 mbar
Natural Gas L	22 mbar	45 mbar
Propane	32 mbar	65 mbar
Butane	50 mbar	65 mbar

Technical Data

	6/1	6/M	10/1	10/M	15/1	15/M	20/1	20/M	30/1	30/M	40/1	40/M
Nominal heat load (kW), NCV	4,6	4,6	7,7	7,7	11,5	11,5	15,4	15,4	23,1	23,1	30,8	30,8
Minimum heat load (kW), NCV	/	2,8	/	4,6	/	6,9	/	9,2	/	13,9	/	18,5
Th. calorific value, GCV (%), max. load	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6
Th. calorific value, GCV (%), partial load	/	85,6	/	85,6	/	85,6	/	85,6	/	85,6	/	85,6
Radiant factor, NCV (%), nominal load	75,2	72,9	76,3	74,0	77,1	74,7	79,2	76,7	80,9	78,4	79,0	76,6
Radiant factor, NCV (%), partial load	/	76,7	/	77,8	/	78,6	/	80,7	/	82,4	/	80,5
Seasonal Efficiency (%)	90,6	95,9	91,5	96,8	93,0	97,4	93,0	98,4	93,8	99,1	93,0	98,4

* measured according to DIN EN 416 at DVGW test laboratory (sS-30/1)

Dimensions supraSchwank



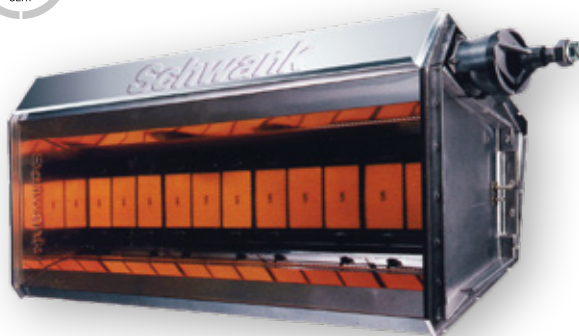
Dimensions	6	10	15	20	30	40
L1 (mm)	553	553	830	1108	1662	1108
L2 (mm)	629	629	906	1184	1738	1181
Weight (kg)	19,4	18,4	23,8	30,4	39,4	35,8

	6	10	15	20	30	40
Nominal heat load (kW)						
Natural gas H / L	4,6	7,7	11,5	15,4	23,1	30,8
Liquefied petroleum gas (LPG)	4,6	7,7	11,5	15,4	23,1	30,8
Connected load						
Natural gas H / L (m ³ /h) ** / ***	0,46 / 0,54	0,77 / 0,90	1,15 / 1,34	1,54 / 1,80	2,32 / 2,70	3,08 / 3,59
Liquefied petroleum gas (LPG) (kg/h) ****	0,36	0,60	0,90	1,20	1,80	2,40
Max. con. pressure (natural gas / LPG / propane / butane)	100 mbar					
Gas connection (external)	R 1/2"					
Electrical connection	230 V / Hz 50 ~					

** $H_{i,n} = 9,97 \text{ kWh/m}^3$ *** $H_{i,n} = 8,57 \text{ kWh/m}^3$ **** $H_{i,n} = 12,87 \text{ kWh/kg}$ ***** $H_{i,n} = 2,995 \text{ kWh/kg}$

primoSchwank

Luminous Heaters



MADE IN GERMANY



Product features:

- Super low NOx (13 mg/kWh)
- Fully insulated - for up to 81% radiant factor**
- Patented delta mixing chamber for preheating of the gas-air mixture
- Fully modulating: adapt to seasonal heat loss
- ModBus capability for optimised controllability and connectivity

Min. connection pressure

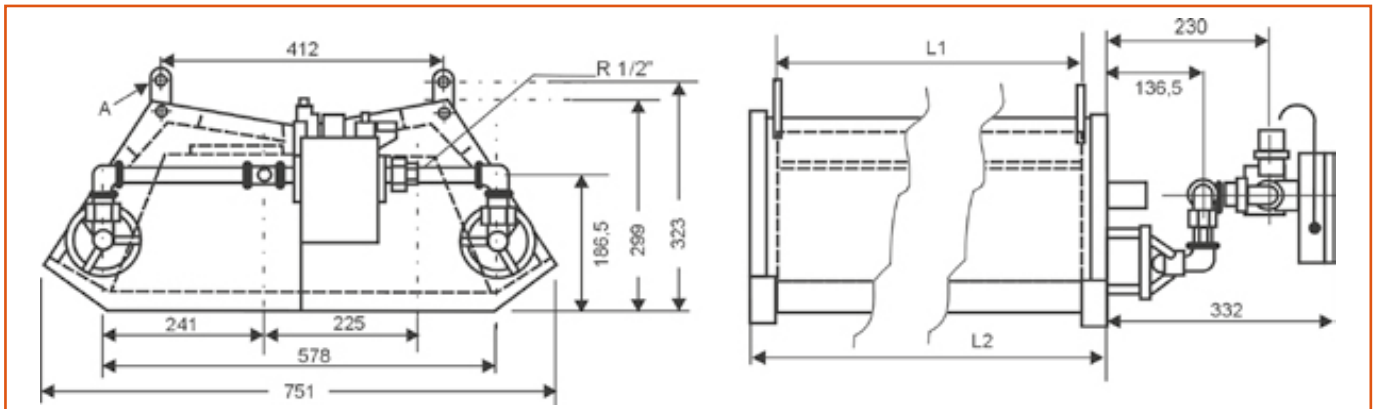
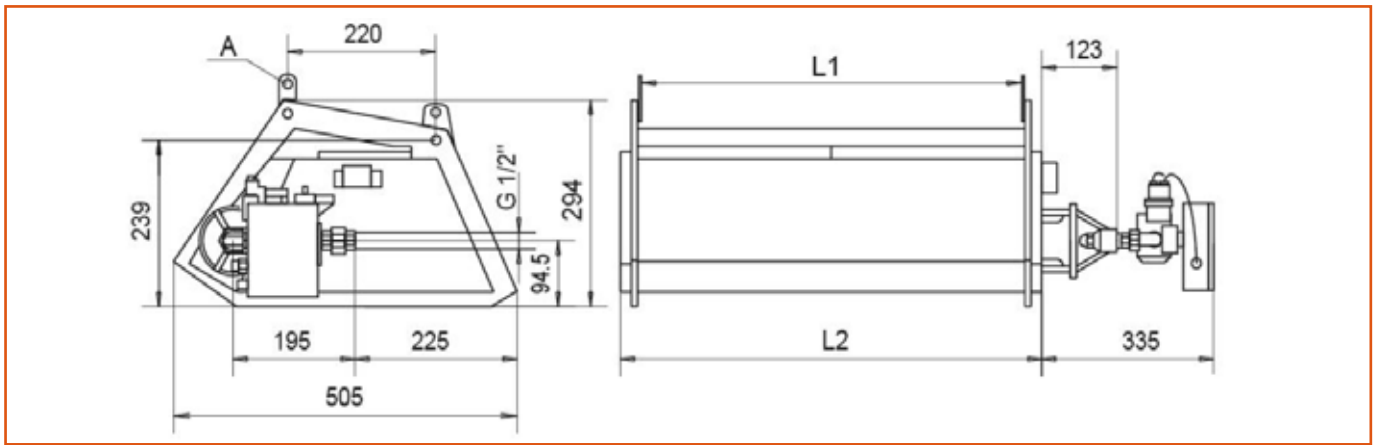
	Single-stage	Step-less modulation
Natural Gas H	20 mbar	45 mbar
Natural Gas L	22 mbar	45 mbar
Propane	50 mbar	65 mbar
Butane	50 mbar	65 mbar

Technical Data

	10/1	10/M*	15/1	15/M*	20/1	20/M*	30/1	30/M*	40/1	40/M*
Nominal heat load (kW), NCV	9,7	9,7	14,5	14,5	19,4	19,4	29,1	29,1	38,8	38,8
Minimum heat load (kW), NCV	/	5,7	/	8,7	/	11,6	/	17,5	/	23,3
Th. calorific value, GCV (%), max. load	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6	85,6
Th. calorific value, GCV (%), partial load	/	85,6	/	85,6	/	85,6	/	85,6	/	85,6
Radiant factor, NCV (%), nominal load	63,8	62,1	66,2	64,4	69,5	67,5	69,5	67,5	71,4	69,3
Radiant factor, NCV (%), partial load	/	65,3	/	67,6	/	71,0	/	71,0	/	72,9
Seasonal Efficiency (%)	85,5	91,0	86,9	92,3	88,6	94,0	88,7	94,1	89,6	95,0

* measured according to DIN EN 416 at DVGW test laboratory (pS-40/m)

Dimensions primoSchwank



Dimensions	10	15	20	30	40
L1 (mm)	553	830	1108	1662	1108
L2 (mm)	605	882	1160	1714	1157
Weight (kg)	11.4	15.4	18.9	24.4	32.4

	10	15	20	30	40
Nominal heat load (kW)					
Natural gas H / L	9.7	14.5	19.4	29.1	38.8
Liquefied petroleum gas	9.7	14.5	19.4	29.1	38.8
Connected load					
Natural gas H / L (m ³ /h) ** / ***	0.97 / 1.13	1.45 / 1.69	1.95 / 2.26	2.92 / 3.40	3.90 / 4.53
Liquefied petroleum gas (kg/h) ****	0.76	1.13	1.52	2.28	3.01
Max. con. pressure (natural gas / LPG / propane / butane)	100 mbar				
Gas connection (external)	R 1/2"				
Electrical connection	230 V / Hz 50 ~				

** $H_{i,n} = 9,97 \text{ kWh/m}^3$ *** $H_{i,n} = 8,57 \text{ kWh/m}^3$ **** $H_{i,n} = 12,87 \text{ kWh/kg}$ ***** $H_{i,n} = 2,995 \text{ kWh/kg}$

tetraSchwank

Condensing Technology / Heat Recovery



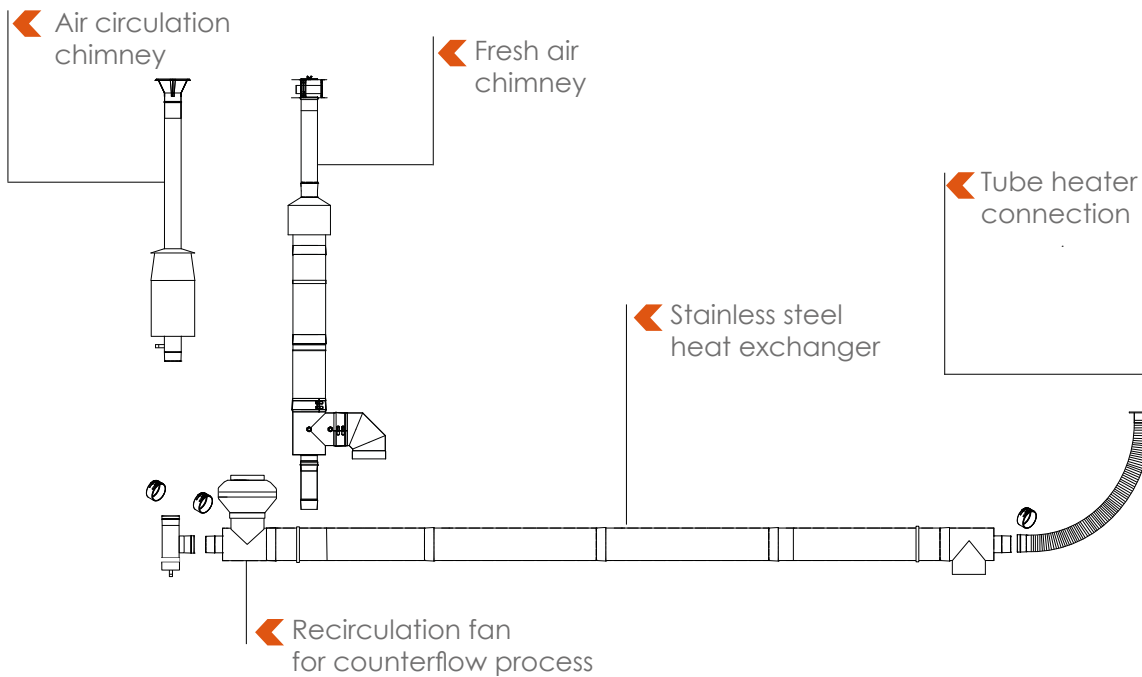
Product features:

- Increased efficiency of the heating system through energy recovery of up to 110 %
- Reduction in the operating costs of connected heating systems (up to 50 % energy costs for the heating of industrial buildings)
- Warm fresh air supply for buildings with virtually no additional energy consumption.



MADE IN GERMANY

Technical schematic of heat recovery system:





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ver. 002 | 02/26

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