Terminal lenghts supply air-flue-systems for gas-condensing boilers

Model	Output kW	Boiler fitting, connecting pipe [2] concentric	riser				
			duct [1]				
			DN	walled, flue			
				open flue		balanced balanced	
				rigid	flexible	rigid	flexible
PEGA 25_18/25	1.8 - 24.2	DN80/125	60	20 m	14 m	13 m	11 m
			80	24 m	20 m	20 m	13 m
PEGA 40	1.8 - 37	DN80/125	80	35 m	30 m	19 m	18 m
TANTUM 25	4 - 22.5	DN80/125	60	17 m	14 m	15 m	13 m
			80	30 m	30 m	30 m	27 m

Model	Output kW	Boiler fitting, connecting pipe [2] concentric	riser				
			central roof unit		external roof		
			DN	concentric, supply air/flue	DN	concentric, supply air/flue	
						open flue	balanced
PEGA 25_18/25	1.8 - 24.2	DN80/125	60/100	2 m	80/125	12 m	18 m
			80/125	4 m			
PEGA 40	1.8 - 37	DN80/125	80/125	4 m	80/125	18 m	25 m
TANTUM 25	4 - 22.5	DN80/125	60/100	2 m	80/125	30 m	30 m
			80/125	4 m			

1) shaft size: 120 mm x 120 mm - DN60; 140 mm x 140m m - DN80
2) connecting pipe 1 m, 2 x 87° Bogen

Calculation data: technical data PEGA and TANTUM.

Kit cascade and multiple use

(only PEGA and TANTUM)

Available on request from us! Can be combined individually to meet your requirements!

Calculation data for pump heads and temperatures

Calculations were carried out with the following pump heads/temperatures:

SND 20 to 35 kW, 150 Pa, Tw 80/60 °C, flue gas 80
SND 40 kW, 150 Pa, Tw 80/60 °C, flue gas 110

Integra Mini, 150 Pa, Tw 80/60 °C, flue gas 80
Integra 36 kW, 150 Pa, Tw 80/60 °C, flue gas 80
Integra 66 kW, 150 Pa, Tw 80/60 °C, flue gas 110

Open operation

Model	Output kW	Flue Ø	Supply air Ø	Connecting pipes	Riser single-wall	Riser flexible	External wall mount concentric
SND Integra Mini	14.0 - 20.0 10.0 - 21.0	M/D80	Room	DN60	DN60 - 20 m	DN60 - 12 m	DN60/100 - 20 m
SND Integra Mini	14.0 - 20.0 10.0 - 21.0	M/D80	Room	DN80	DN80 - 50 m	DN80 - 50 m	DN80/125 - 29 m
SND Integra Mini	18.0 - 30.0 21.0 - 27.0	M/D80	Room	DN80	DN80 - 50 m	DN80 - 37 m	DN80/125 - 43 m
SND Integra Mini	30.0 - 35.0 27.0 - 36.0	M/D80	Room	DN80	DN80 - 40 m	DN80 - 26 m	DN80/125 - 42 m
SND	30.0 - 40.0	M/D100	Room	DN100	DN100 - 50 m	DN100 - 50 m	DN100/150 - 47 m

Balanced operation

Model	Output kW	Flue Ø	Supply air Ø	Connecting pipes	Riser single-wall	Riser flexible	External wall mount concentric
Integra Mini	10.0 - 21.0	M/D80	M/D125	DN60/100	DN60 - 14 m	DN60 - 9 m	DN60/100 - 14 m
Integra Mini	10.0 - 21.0	M/D80	M/D125	DN80/125	DN80 - 30 m	DN80 - 30 m	DN80/125 - 30 m
Integra Mini	21.0 - 27.0	M/D80	M/D125	DN80/125	DN80 - 40 m	DN80 - 33 m	DN80/125 - 35 m
Integra Mini	27.0 - 36.0	M/D80	M/D125	DN80/125	DN80 - 26 m	DN80 - 19 m	DN80/125 - 30 m
Integra Mini	27.0 - 36.0	M/D80	M/D125	DN80/125	DN100 - 40 m	DN100 - 38 m	DN100/150 - 30 m
Integra 36	10.0 - 36.0	M/D80	M/D125	DN80/125	DN80 - 26 m	DN80 - 19 m	DN80/125 - 30 m
Integra 36	10.0 - 36.0	M/D80	M/D125	DN80/125	DN100 - 26 m	DN100 - 19 m	DN100/150 - 25 m
Integra 66	34.0 - 66.0	M/D110	M/D150	DN100/150	DN100 - 40 m	DN100 - 40 m	DN100/150 - 20 m
Integra 66	34.0 - 66.0	M/D110	M/D150	DN100/150	DN110 - 45 m	DN110 - 45 m	DN100/150 - 20 m

General: M = Push-fit socket with gasket at the fireplace | D = matching outer pipe diameter Connecting pipes consisting of 2 pieces of 87° bends and developed length of 2.5 m and difference in height 1.0 m calculated for square ducts with minimum dimensions as per DIN18160 of 20 mm (details do not apply to round ducts or larger ring gaps). Smaller ring gaps are permissible for balanced operation! Vertical section as per support bend test approved only for 30 m. For larger heights additional mounting bracket to the support bend sleeve on the building side. Calculated with air intake at the external wall system maximum 1m above the lower 87° bend.
[x1] = item has to be ordered separately, not part of the kit.