



Gas trains

Gas fitting group VF2

Selection chart EK5 G-R0

Burner type	Burner capacity kW	pFr max mbar	Pressure loss Δp (mbar)									
			DN40		DN50		DN65		DN80		DN100	
			Natural Gas E	Natural Gas LL	Natural Gas E	Natural Gas LL	Natural Gas E	Natural Gas LL	Natural Gas E	Natural Gas LL	Natural Gas E	Natural Gas LL
EK 5.180 G-R0	1100	17	38	61	-	35	-	-	-	-	-	-
	1200	16	49	72	30	42	-	-	-	-	-	-
	1300	13	59	-	34	48	-	29	-	-	-	-
	1400	10,5	71*	-	40	56	25	32	-	-	-	-
	1550	7,5	-	-	48	67	29	37	23	26	-	-
	1650	5	-	-	55	75	31	40	24	29	-	-
	1750	2,5	-	-	62	85	34	44	26	32	-	-
1850	0	-	-	65	89	37	46	26	32	-	-	
EK 5.220 G-R0	1350	19	61	-	33	48	-	26	-	-	-	-
	1500	16	-	-	42	62	24	31	-	22	-	-
	1600	13	-	-	48	68	26	35	-	24	-	-
	1700	11	-	-	54	77	29	40	-	27	-	-
	1800	9	-	-	61	87*	33	45	23	29	-	-
	2000	4	-	-	76	-	40	55	29	37	-	-
	2200	0	-	-	94*	-	49	67	35	44	-	-
EK 5.280 G-R0	1500	14	-	-	44	58	22	29	16	20	-	-
	1700	14	-	-	51	74*	26	37	18	23	-	-
	2000	14	-	-	71*	-	36	52	22	32	-	-
	2200	12,5	-	-	86*	-	44	63	28	40	-	-
	2400	9,5	-	-	-	-	54	76	35	48	-	-
	2600	7	-	-	-	-	63	87	40	56	-	-
	2900	0	-	-	-	-	82	111	53	72	-	-

Comments

pe: Gas flowing pressure before ball valve (mbar)

pFr: Furnace pressure loss (mbar)

Δp : Pressure loss (mbar)

Natural Gas E Hu = 10,35 kWh/m³, d = 0,606

Natural Gas LL Hu = 8,85 kWh/m³, d = 0,641

Conditions

The furnace pressure loss pFr must be added to the pressure loss Δp .

The furnace pressure loss pFr must be lower than the furnace pressure loss pFr max.

* Gas velocity > 30 m/s and/or Δp Gas filter > 10 mbar

Example (Natural Gas E)

Burner type	EK 5.220 G-R0
Burner capacity	1700 kW
Furnace pressure loss pFr	10 mbar
Gas flowing pressure pe before ball valve	80 mbar
Pressure loss Δp for DN50 (from chart)	54 mbar
Minimum gas pressure for DN50 ($\Delta p + pFr$):	64 mbar
Gas flowing pressure pe > than minimum gas pressure for DN50	

Result

DN50 is suitable