

# 1 NEXT-G SERIES GAS UNIT HEATERS

Figure 1.1

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							Next-G 30
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	27,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	88,1	%
Minimum capacity	P <sub>min</sub>	9,9	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	96,2	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,035	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,012	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,9	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	90,6	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.2

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							Next-G 45
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	41,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	86,7	%
Minimum capacity	P <sub>min</sub>	14,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,9	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,048	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,016	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	53	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,6	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	89,1	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.3

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 60	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	56,6	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,8	%
Minimum capacity	P <sub>min</sub>	19,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,8	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,072	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,024	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	95,6	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	90,2	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.4

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 90	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	87,3	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,4	%
Minimum capacity	P <sub>min</sub>	28,6	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	95,6	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,110	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,037	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	26	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	96,0	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	91,2	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.5

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 20 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	19,0	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,8	%
Minimum capacity	P <sub>min</sub>	8,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	95,1	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,030	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,010	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	24	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	95,7	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	89,6	%
Contact details						Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)	
(*) Not required for electric warm air heaters.							

Figure 1.6

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 30 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	27,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	88,1	%
Minimum capacity	P <sub>min</sub>	9,9	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	96,2	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,035	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,012	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,9	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	90,6	%
Contact details						Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)	
(*) Not required for electric warm air heaters.							

Figure 1.7

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 35 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	33,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,3	%
Minimum capacity	P <sub>min</sub>	13,1	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	96,0	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,036	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,012	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	20	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>ls,flow</sub>	94,1	%
				Seasonal space heating energy efficiency	η <sub>ls,h</sub>	89,3	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.8

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 45 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	41,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	86,7	%
Minimum capacity	P <sub>min</sub>	14,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,9	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,048	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,016	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	53	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>ls,flow</sub>	94,6	%
				Seasonal space heating energy efficiency	η <sub>ls,h</sub>	89,1	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.9

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 60 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	56,6	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,8	%
Minimum capacity	P <sub>min</sub>	19,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,8	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,072	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,024	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	95,6	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	90,2	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.10

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 75 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	72,0	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	86,5	%
Minimum capacity	P <sub>min</sub>	26,3	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,6	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,100	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,037	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	30	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	93,8	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	88,0	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.11

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 90 EC	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	87,3	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,4	%
Minimum capacity	P <sub>min</sub>	28,6	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	95,6	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,110	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,037	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	26	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>ls,flow</sub>	96,0	%
				Seasonal space heating energy efficiency	η <sub>ls,h</sub>	91,2	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.12

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 30 C	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	27,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	88,0	%
Minimum capacity	P <sub>min</sub>	9,9	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	96,2	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,035	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,012	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>ls,flow</sub>	95,0	%
				Seasonal space heating energy efficiency	η <sub>ls,h</sub>	90,6	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 1.13

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						Next-G 60 C	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	56,6	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	87,8	%
Minimum capacity	P <sub>min</sub>	19,5	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	94,8	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,072	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,024	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,004	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	21	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	95,4	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	90,0	%
Contact details		Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

## 2 NEXT-R SERIES GAS UNIT HEATERS

Figure 2.1

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:						R15	
B <sub>1</sub> warm air heater: [yes/no]						no	
C <sub>2</sub> warm air heater: [yes/no]						no	
C <sub>4</sub> warm air heater: [yes/no]						no	
Type of fuel: [gas/liquid/electricity]						gas	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	14,1	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	9,9	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	86,5	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,035	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,015	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	16	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	95,4	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,1	%
Contact details		Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)					
(*) Not required for electric warm air heaters.							

Figure 2.2

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R20
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	18,7	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	12,7	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	86,9	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,035	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,015	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NOx	33	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,7	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.3

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R30
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	25,5	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	16,3	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,1	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,015	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NOx	25	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,2	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							



Figure 2.4

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R40
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	35,0	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,4	%
Minimum capacity	P <sub>min</sub>	22,2	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	86,9	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,020	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	33	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,3	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.5

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R50
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	49,0	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	31,0	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	88,1	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,020	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	27	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	93,5	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.6

Table 9 Information requirements for warm air heaters								
Model(s): Information to identify the model(s) to which the information relates:							R60	
B <sub>1</sub> warm air heater: [yes/no]							no	
C <sub>2</sub> warm air heater: [yes/no]							no	
C <sub>4</sub> warm air heater: [yes/no]							no	
Type of fuel: [gas/liquid/electricity]							gas	
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Capacity					Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	62,8	kW		Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	40,4	kW		Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,8	%
Electric power consumption (*)					Other items			
At rated heating capacity	e <sub>l,max</sub>	0,050	kW		Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,030	kW		Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW		Emissions of nitrogen oxides (*)	NOx	42	mg/kWh input energy (GCV)
					Emission efficiency	η <sub>s,flow</sub>	93,6	%
					Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)							
(*) Not required for electric warm air heaters.								

Figure 2.7

Table 9 Information requirements for warm air heaters								
Model(s): Information to identify the model(s) to which the information relates:							R80	
B <sub>1</sub> warm air heater: [yes/no]							no	
C <sub>2</sub> warm air heater: [yes/no]							no	
C <sub>4</sub> warm air heater: [yes/no]							no	
Type of fuel: [gas/liquid/electricity]							gas	
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Capacity					Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	76,4	kW		Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	52,6	kW		Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,8	%
Electric power consumption (*)					Other items			
At rated heating capacity	e <sub>l,max</sub>	0,050	kW		Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,030	kW		Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW		Emissions of nitrogen oxides (*)	NOx	41	mg/kWh input energy (GCV)
					Emission efficiency	η <sub>s,flow</sub>	93,8	%
					Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)							
(*) Not required for electric warm air heaters.								

Figure 2.8

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R30 C
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	25,5	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	16,3	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,1	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,015	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	25	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,2	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.9

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R40 C
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	35,0	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,4	%
Minimum capacity	P <sub>min</sub>	22,2	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,0	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,020	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NO <sub>x</sub>	33	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,3	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.10

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R50 C
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	44,6	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	30,3	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	88,1	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,040	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,020	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NOx	27	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	94,2	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,6	%
Contact details	Robur SPA Via Parigi 4/6 I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							

Figure 2.11

Table 9 Information requirements for warm air heaters							
Model(s): Information to identify the model(s) to which the information relates:							R80 C
B <sub>1</sub> warm air heater: [yes/no]							no
C <sub>2</sub> warm air heater: [yes/no]							no
C <sub>4</sub> warm air heater: [yes/no]							no
Type of fuel: [gas/liquid/electricity]							gas
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Capacity				Useful efficiency			
Rated heating capacity	P <sub>rated,h</sub>	76,4	kW	Useful efficiency at rated heating capacity (*)	η <sub>nom</sub>	82,0	%
Minimum capacity	P <sub>min</sub>	52,6	kW	Useful efficiency at minimum capacity (*)	η <sub>pl</sub>	87,8	%
Electric power consumption (*)				Other items			
At rated heating capacity	e <sub>l,max</sub>	0,050	kW	Envelope loss factor	F <sub>env</sub>	0,0	%
At minimal capacity	e <sub>l,min</sub>	0,030	kW	Ignition burner power consumption (*)	P <sub>ign</sub>	0,0	kW
In standby mode	e <sub>l,sb</sub>	0,000	kW	Emissions of nitrogen oxides (*)	NOx	41	mg/kWh input energy (GCV)
				Emission efficiency	η <sub>s,flow</sub>	93,8	%
				Seasonal space heating energy efficiency	η <sub>s,h</sub>	78,0	%
Contact details	Robur SPA, Via Parigi 4/6, I-24040 Zingonia (BG)						
(*) Not required for electric warm air heaters.							