



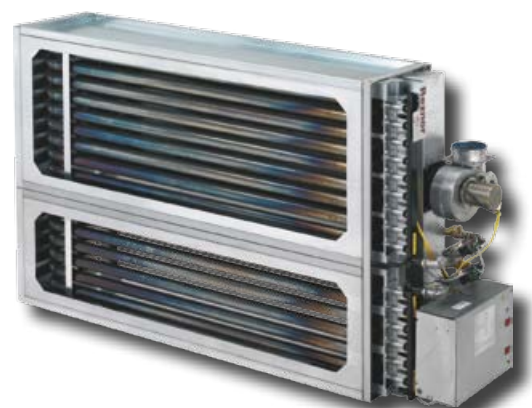
# REZNOR

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## RHC - RHCE

Gas fired heating coils

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Reznor gas fired heating coils further extend the possibilities of Reznor heating solutions. They are designed for inclusion in an air handling unit (AHU) to provide a gas fired heat exchanger section or for installation in ductwork systems.

They are also suitable for replacing steam and hot water coils in existing units and plenum systems, thereby enabling changeover from central boiler plant to decentralised gas fired systems.

### RHC 4000

The RHC 4000 range extends from 18 to 200 kW output

### RHC 8000

With a choice of 15 outputs (30 to 300 kW) units can be mounted in multiples of up to three in series and two high, or side by side, enabling heat outputs up to 1200 kW.

Both types of unit are suitable for either indoor (DJL models) or outdoor (RJL models) applications.

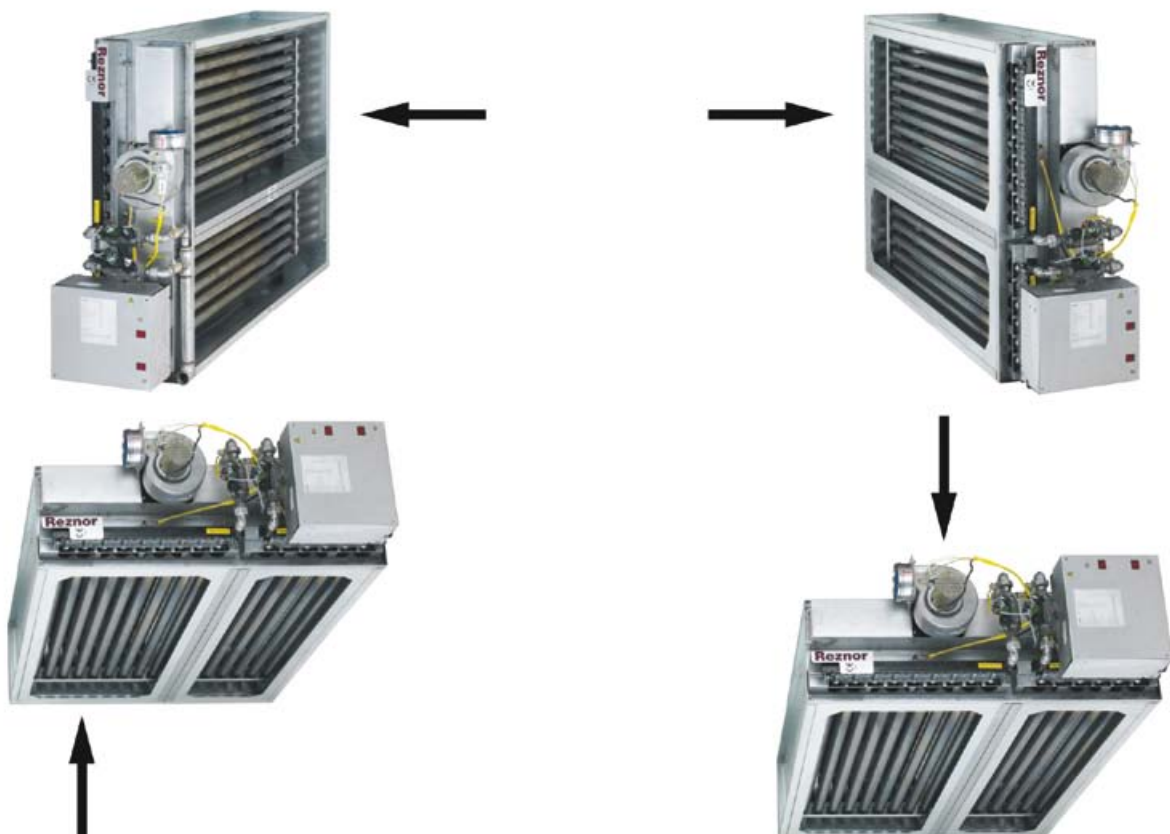
### RHCE 8000

The newest addition is the RHCE range, the high efficiency condensing version that comes in 56, 82 and 106 kW output capacities.

### Benefits

- High efficiency units: RHC: 91%+ , RHCE: 101%+ \* qualify for Enhanced Capital Allowances in the UK.
- Application flexibility: Most units can accommodate both vertical and horizontal airflows.
- Choice of controls: Close temperature control - On/Off High/Low or modulating.
- Longer life: Heat exchanger tubes are expanded into a collection box, eliminating welds. Furthermore they are available with a choice of stainless or aluminised steel tubes.
- Low cost: Simple installation reduces costs.
- Optimum choice: The different tube lengths available in both the RHC 4000 and RHC 8000 units offers the designer a wide choice to suit the air handling unit profile.

#### Air Flow Directions



Note: Where optional diffuser plate is used, it must be fitted on the air inlet  
\*Efficiency net calorific value

## Optional Control Vestibules



**DJL MODEL**  
Indoors application



**RJL MODEL**  
Outdoors application

## Multiple Units



Monobloc Double Unit



Monobloc Triple Unit

Range capability can be increased by  
Mounting units two high or side by side.

**RHC 4000 Gas Fired Heating Coils**

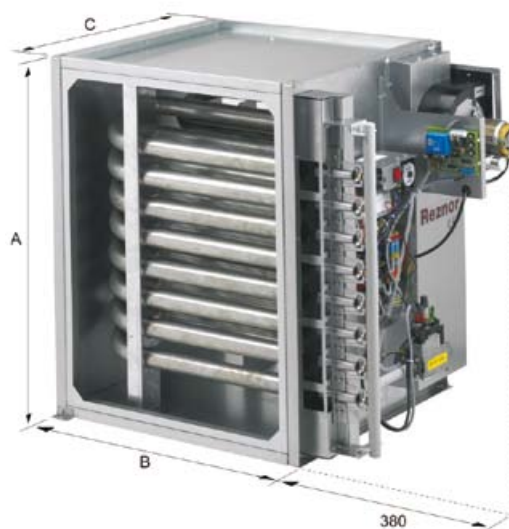
Model		4018.05	4024.05	4030.06	4036.08
Nominal heat output	kW	18	24	30	36
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	2,10	2,79	3,49	4,20
LPG consumption <sup>1</sup>	kg/h	1,57	2,10	2,61	3,14
Gas connection <sup>2</sup>	Rc				
Flue diameter (RJL)	mm				
Flue diameter (DJL)	mm		100		130
Combustion air inlet (DJL)	mm		100		130
Electrical consumption (230V 1Ph 50Hz)	kW				
Net weight	kg	30	31	33	52

Note:

- 1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV
- 2. Not supply line size

For full technical data please contact Nortek Global HVAC.

**RHC 4000 Dimension Data**



Model		4018.05	4024.05	4030.06	4036.08
Height A	mm	458	559	559	837
Width B	mm	547	677	677	677
Depth C	mm	590	648	648	648

**Pressure Drop Data - Standard Airflow**

Model		4018.05	4024.05	4030.06	4036.08
Minimum airflow	m <sup>3</sup> /h	2270	2880	3290	5281
Pressure drop minimum airflow	Pa	15	20	15	25

### RHC 4000 Gas Fired Heating Coils

Model		4050.06	4060.07	4075.09	4100.12
Nominal heat output	kW	51	61	75	100
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	5,92	7,12	8,73	11,45
LPG consumption <sup>1</sup>	kg/h	4,43	5,25	6,61	8,57
Gas connection <sup>2</sup>	Rc	3/4			
Flue diameter (RJL)	mm	100			
Flue diameter (DJL)	mm	130			
Combustion air inlet (DJL)	mm	130			
Electrical consumption (230V 1Ph 50Hz)	kW	0,153			
Net weight	kg	90	100	120	149

**Note:**

1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV
2. Not supply line size

For full technical data please contact Nortek Global HVAC.

### RHC 4000 Dimension Data



Model		4050.06	4060.07	4075.09	4100.12
Height A	mm	531	601	741	950

### Pressure Drop Data - Single Module

Model		4050.06	4060.07	4075.09	4100.12
Minimum airflow	m <sup>3</sup> /h	3900	4700	5700	7500
Pressure drop minimum airflow	Pa	40	40	37	40

### Pressure Drop Data - Twin Module

Model		4050.06	4060.07	4075.09	4100.12
Minimum airflow	m <sup>3</sup> /h	5950	7150	8800	11700
Pressure drop minimum airflow	Pa	150	150	150	156

**RHC 4000 Gas Fired Heating Coils**

Model		4110M.13	4125M.15	4150M.18	4175M.21	4200M.24
Nominal heat output	kW	112	126	151	175	199
Natural gas consumption <sup>1</sup>	m³/h	13,02	14,63	17,44	20,19	22,94
LPG consumption <sup>1</sup>	kg/h	9,61	10,79	12,85	14,89	16,91
Gas connection <sup>2</sup>	Rc	1 1/4				
Flue diameter (RJL)	mm	130				
Flue diameter (DJL)	mm	130				
Combustion air inlet (DJL)	mm	130				
Electrical consumption (230V 1Ph 50Hz)	kW	0,282				
Net weight	kg	200	220	250	279	313

**Note:**

- 1. Natural gas G20 - calorific value 10.48 kWh/m³ GCV. Propane G31 calorific value 14.0 kWh/kg GCV
- 2. Not supply line size

For full technical data please contact Nortek Global HVAC.

**RHC 4000 Dimension Data**



Model		4110M.13	4125M.15	4150M.18	4175M.21	4200M.24
Height A	mm	1132	1272	1481	1691	1900

**Pressure Drop Data - Single Module**

Model		4110M.13	4125M.15	4150M.18	4175M.21	4200M.24
Minimum airflow	m³/h	8600	9600	12300	14100	16300
Pressure drop minimum airflow	Pa	70	68	44	43	44

**Pressure Drop Data - Twin Module**

Model		4110M.13	4125M.15	4150M.18	4175M.21	4200M.24
Minimum airflow	m³/h	13600	15600	17500	20600	23300
Pressure drop minimum airflow	Pa	352	359	178	181	165

## RHC 8000 Gas Fired Heating Coils

Model		8030.06	8045.09	8060.12	8075.15	8090.18
Nominal heat output	kW	30	46	61	75	90
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	3,53	5,34	7,12	8,72	10,48
LPG consumption <sup>1</sup>	kg/h	2,64	4,00	5,33	6,43	7,72
Gas connection <sup>2</sup>	Rc	3/4				
Flue diameter (RJL)	mm	100			130	
Flue diameter (DJL)	mm	100	130			
Combustion air inlet (DJL)	mm	100	130			
Electrical consumption (230V 1Ph 50Hz)	kW	0,153				
Net weight	kg	60	87	120	140	160

**Note:**

1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV

2. Not supply line size

For full technical data please contact Nortek Global HVAC.

## RHC 8000 Dimension Data



Model		8030.06	8045.09	8060.12	8075.15	8090.18
Height A	mm	531	741	950	1160	1369

## Pressure Drop Data - Single Module

Model		8030.06	8045.09	8060.12	8075.15	8090.18
Minimum airflow with optional diffuser plate	m <sup>3</sup> /h	3750	5650	7500	9300	11200
Pressure drop with diffuser plate	Pa	85	90	90	85	85
Minimum airflow standard unit	m <sup>3</sup> /h	4400	6600	8750	11900	14300
Pressure drop minimum airflow	Pa	40	40	40	50	50

## Pressure Drop Data - Twin Module

Model		8030.06	8045.09	8060.12	8075.15	8090.18
Minimum airflow with optional diffuser plate	m <sup>3</sup> /h	3750	5650	7500	9300	11200
Pressure drop with diffuser plate	Pa	90	100	100	95	95
Minimum airflow standard unit	m <sup>3</sup> /h	4400	6600	8750	11900	14300
Pressure drop minimum airflow	Pa	70	75	75	80	80

## Pressure Drop Data - Triple Module

Model		8030.06	8045.09	8060.12	8075.15	8090.18
Minimum airflow standard unit	m <sup>3</sup> /h	5250	7850	10500	13000	15800
Pressure drop minimum airflow	Pa	135	140	145	135	140



## RHC 8000 Gas Fired Heating Coils

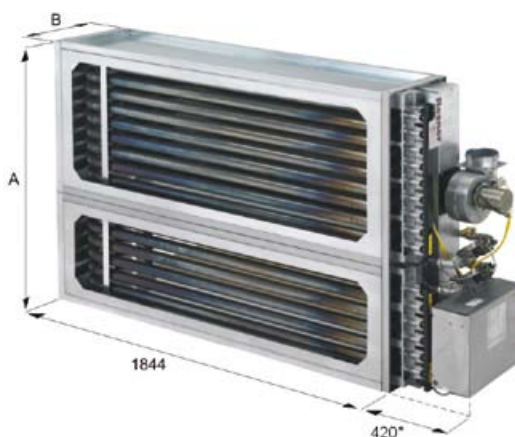
Model		8050.06	8075.09	8100.12	8125M.15	8150M.18	8175M.21	8200M.24
Nominal heat output	kW	51	76	100	126	150	174	200
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	5,92	8,73	11,45	14,63	17,44	20,19	23,28
LPG consumption <sup>1</sup>	kg/h	4,43	6,61	8,57	10,78	12,85	14,88	17,16
Gas connection <sup>2</sup>	Rc		3/4			1 1/4		
Flue diameter (RJL)	mm		100			130		
Flue diameter (DJL)	mm				130			
Combustion air inlet (DJL)	mm				130			
Electrical consumption (230V 1Ph 50Hz)	kW		0,153			0,282		0,656
Net weight	kg	80	110	145	200	230	265	305

**Note:**

1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV
2. Not supply line size

For full technical data please contact Nortek Global HVAC.

## RHC 8000 Dimension Data



\* 470 mm for model 820C

Model		8050.06	8075.09	8100.12	8125M.15	8150M.18	8175M.21	8200M.24
Height A	mm	531	741	950	1272	1481	1691	1900
Depth B	mm	400	400	400	400	400	400	530

## Pressure Drop Data - Single Module

Model		8050.06	8075.09	8100.12	8125M.15	8150M.18	8175M.21	8200M.24
Minimum airflow with optional diffuser plate	m <sup>3</sup> /h	6200	9300	12400	15600	18200	20100	23300
Pressure drop with diffuser plate	Pa	100	115	115	110	110	85	80
Minimum airflow standard unit	m <sup>3</sup> /h	7150	10790	14300	18000	21000	21500	24000
Pressure drop minimum airflow	Pa	50	50	50	50	50	40	40

## Pressure Drop Data - Twin Module

Model		8050.06	8075.09	8100.12	8125M.15	8150M.18	8175M.21	8200M.24
Minimum airflow with optional diffuser plate	m <sup>3</sup> /h	6200	9300	12400	15600	18200	20100	23300
Pressure drop with diffuser plate	Pa	110	120	120	120	120	125	145
Minimum airflow standard unit	m <sup>3</sup> /h	7150	10750	14300	18000	21000	21500	24000
Pressure drop minimum airflow	Pa	85	95	90	95	95	70	65

## Pressure Drop Data - Triple Module

Model		8050.06	8075.09	8100.12	8125M.15	8150M.18	8175M.21	8200M.24
Minimum airflow standard unit	m <sup>3</sup> /h	8750	13000	17000	22000	26000	30000	35000
Pressure drop minimum airflow	Pa	170	185	180	180	185	185	190

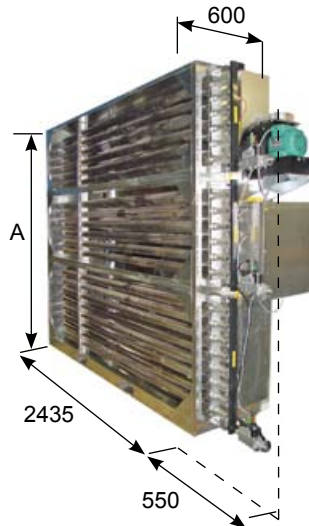
### RHC 8000 Gas Fired Heating Coils

Model		8225M.18	8250M.20	8275M.22	8300M.24
Nominal heat output	kW	222	247	272	296
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	25,78	28,66	31,53	34,41
LPG consumption <sup>1</sup>	kg/h	19,00	21,12	23,24	25,36
Gas connection <sup>2</sup>	Rc	1 1/4			
Flue diameter (RJL)	mm	130			
Flue diameter (DJL)	mm	150			
Combustion air inlet (DJL)	mm	150			
Electrical consumption (230V 1Ph 50Hz)	kW	0,84			
Net weight	kg	487	501	516	530

**Note:**  
 1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV  
 2. Not supply line size

For full technical data please contact Nortek Global HVAC.

### RHC 8000 Dimension Data



Model		8225M.18	8250M.20	8275M.22	8300M.24
Height A	mm	1917	2083	2249	2415

### Pressure Drop Data - Single Module

Model		8225M.18	8250M.20	8275M.22	8300M.24
Min airflow with optional diffuser plate	m <sup>3</sup> /h	22800	25200	27600	29700
Pressure drop with diffuser plate	Pa	35	35	35	35
Minimum airflow standard unit	m <sup>3</sup> /h	33600	37200	40800	43800
Pressure drop at minimum air flow	Pa	40	40	40	40

### Pressure Drop Data - Twin Module

Model		8225M.18	8250M.20	8275M.22	8300M.24
Min airflow with optional diffuser plate	m <sup>3</sup> /h	29000	32200	35400	38700
Pressure drop with diffuser plate	Pa	65	65	80	80
Minimum airflow standard unit	m <sup>3</sup> /h	33600	37200	40800	43800
Pressure drop at minimum air flow	Pa	65	70	85	85

### Pressure Drop Data - Triple Module

Model		8225M.18	8250M.20	8275M.22	8300M.24
Minimum airflow standard unit	m <sup>3</sup> /h	39500	44300	47700	52000
Pressure drop at minimum air flow	Pa	154	159	150	155

RHCE 8000 condensing Gas Fired Heating Coils				
Model		8055.06	8080.09	8110.12
Nominal heat output	kW	56	82	106
Natural gas consumption <sup>1</sup>	m <sup>3</sup> /h	5,91	8,72	11,15
LPG consumption <sup>1</sup>	kg/h	4,36	6,43	8,22
Gas connection <sup>2</sup>	Rc		3/4	
Flue diameter (RJL)	mm		100	
Flue diameter (DJL)	mm		130	
Combustion air inlet (DJL)	mm		130	
Electrical consumption (230V 1Ph 50Hz)	kW	0,285	0,285	0,285
Net weight	kg	175	225	275

Note:  
 1. Natural gas G20 - calorific value 10.48 kWh/m<sup>3</sup> GCV. Propane G31 calorific value 14.0 kWh/kg GCV  
 2. Not supply line size

For full technical data please contact Nortek Global HVAC.

**RHCE 8000 Dimension Data**



Model		8055.06	8080.09	8110.12
Height A <sup>3</sup>	mm	531	741	950
Depth B <sup>3</sup>	mm	800	800	800

**Pressure Drop Data - Single Module**

Model		8055.06	8080.09	8110.12
Minimum airflow with optional diffuser plate	m <sup>3</sup> /h	6200	9300	12400
Pressure drop with diffuser plate	Pa	75	99	101

**RHCE: condensing heating coil**

The RHCE is the latest evolution of the RHC. The RHCE has additional passes in its heat exchanger tubes, which enables it to attain a higher efficiency by condensation. Through condensation, more heat is extracted out of the flue gases.

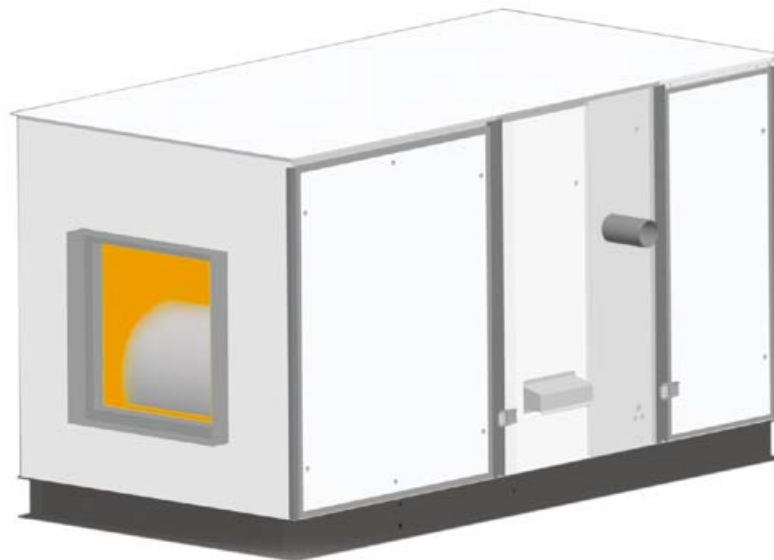
RHCE units can be combined with regular RHC units of the 8000-series.

Note:  
 3 Height and depth of single RHCE unit only; RHCE units are often combined with regular RHC units of the 8000 series.

For full technical data please contact Nortek Global HVAC.



Typical example of an RHC DJL unit fitted into an air handling unit that is installed indoors



Typical example of an RHC RJL unit fitted into an air handling unit that is installed outdoors