



# Ducted Packaged Units

## Part Load Data

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OPA 970 Econex R32

  


**Cooling Capacity**  
16 kW – 102 kW

  


**Heating Capacity**  
13 kW – 110 kW









# Performance Data at part load

## Heating Capacity (kW)

G = Gross Capacity (kW), based on nominal air flow.  
N = Net Heating Capacity (kW) allowing for average defrost.  
PI = Power Input (kW)

○ = Nominal Capacity (kW)  
Nominal Air Flow: **4 700 l/s**

### OPA 970 at Maximum Capacity (4 700 l/s)

Air on

Outdoor coil entering air temperature °C DB

D.B. °C	- 5			- 3			- 1			1			3			5			7			9		
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI
15	83.2	72.9	32.6	88.0	72.0	33.1	92.7	73.1	33.9	97.5	77.9	34.0	102.2	87.8	33.9	107.0	104.6	34.4	111.7	111.7	34.9	116.5	116.5	35.4
20	82.0	71.9	34.7	86.7	71.0	35.3	91.5	72.2	36.2	96.2	76.9	36.3	101.0	86.9	36.2	105.7	103.6	36.7	110.5	110.5	37.3	115.2	115.2	37.8
25	79.4	69.9	37.0	84.1	69.0	37.7	88.9	70.1	38.6	93.6	74.8	38.7	98.4	84.8	38.6	103.1	101.6	39.2	107.9	107.9	39.8	112.6	112.6	40.4

### OPA 970 at Nominal Capacity (4 700 l/s)

Air on

Outdoor coil entering air temperature °C DB

D.B. °C	- 5			- 3			- 1			1			3			5			7			9		
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI
15	72.2	63.3	25.3	76.3	62.5	25.7	80.5	63.5	26.2	84.6	67.6	26.2	88.7	76.2	26.2	92.8	90.8	26.5	96.9	96.9	26.8	101.1	101.1	27.1
20	71.2	62.4	27	75.3	61.6	27.4	79.4	62.6	28	83.5	66.7	28.1	87.6	75.4	28	91.8	89.9	28.3	95.9	95.9	28.7	30.6	30.6	9.5
25	68.9	60.6	28.9	73	59.8	29.3	77.1	60.8	29.9	81.2	64.9	30	85.4	73.6	29.9	89.5	88.1	30.3	93.6	93.6	30.7	100.0	100.0	29.0

### OPA 970 at Nominal less 10% (4 700 l/s)

Air on

Outdoor coil entering air temperature °C DB

D.B. °C	- 5			- 3			- 1			1			3			5			7			9		
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI
15	65.0	56.9	22.8	68.7	56.2	23.1	72.4	57.1	23.5	76.1	60.8	23.5	79.8	68.6	23.5	83.5	81.7	23.7	87.2	87.2	24.0	91.0	91.0	24.2
20	64.0	56.2	24.4	67.7	55.5	24.7	71.5	56.4	25.1	75.2	60.1	25.2	78.9	67.9	25.1	82.6	80.9	25.4	24.4	24.4	6.9	25.5	25.5	7.0
25	62.0	54.6	26.0	65.7	53.9	26.4	69.4	54.7	26.9	73.1	58.5	27.0	76.8	66.2	26.9	80.5	79.3	27.2	86.3	86.3	25.7	90.0	90.0	26.0

### OPA 970 at Nominal less 20% (4 700 l/s)

Air on

Outdoor coil entering air temperature °C DB

D.B. °C	- 5			- 3			- 1			1			3			5			7			9		
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI
15	57.8	50.6	20.0	61.1	50.0	20.2	64.4	50.8	20.5	67.7	54.1	20.6	71.0	61.0	20.5	74.3	72.6	20.7	77.5	77.5	20.9	80.8	80.8	21.1
20	56.9	49.9	21.4	60.2	49.3	21.6	63.5	50.1	22.0	66.8	53.4	22.0	70.1	60.3	22.0	73.4	71.9	22.2	76.7	76.7	22.4	80.0	80.0	22.6
25	55.1	48.5	22.8	58.4	47.9	23.1	61.7	48.7	23.5	65.0	52.0	23.6	68.3	58.9	23.5	71.6	70.5	23.8	74.9	74.9	24.0	78.2	78.2	24.3

### OPA 970 at Nominal less 30% (4 700 l/s)

Air on

Outdoor coil entering air temperature °C DB

D.B. °C	- 5			- 3			- 1			1			3			5			7			9		
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI
15	50.5	44.3	16.8	53.4	43.7	16.9	56.3	44.4	17.2	59.2	47.3	17.2	62.1	53.4	17.2	65.0	65.0	17.3	67.9	67.9	17.4	70.7	70.7	17.5
20	49.8	43.7	17.9	52.7	43.2	18.1	55.6	43.8	18.3	58.5	46.7	18.4	61.3	52.8	18.3	64.2	64.2	18.5	67.1	67.1	18.6	70.0	70.0	18.8
25	48.2	42.4	19.1	51.1	41.9	19.3	54.0	42.6	19.6	56.9	45.5	19.6	59.7	51.5	19.6	62.6	62.6	19.8	65.5	65.5	19.9	68.4	68.4	20.1

## Heating Capacity (kW)

G = Gross Capacity (kW), based on nominal air flow.  
 N = Net Heating Capacity (kW) allowing for average defrost.  
 PI = Power Input (kW)

Nominal Air Flow: **4 700 l/s**

### OPA 970 at Nominal less 40% ( 4 700 l/s)

Air on		Outdoor coil entering air temperature °C DB																							
D.B. °C	- 5			- 3			- 1			1			3			5			7			9			
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	
15	43.3	38.0	14.9	45.8	37.5	15.0	48.3	38.1	15.1	50.7	40.5	15.2	53.2	45.7	15.1	55.7	55.7	15.2	58.2	58.2	15.3	60.6	60.6	15.4	
20	42.7	37.5	15.8	45.2	37.0	15.9	47.6	37.6	16.1	50.1	40.0	16.1	52.6	45.2	16.1	55.1	55.1	16.2	57.5	57.5	16.3	60.0	60.0	16.4	
25	41.3	36.4	16.8	43.8	35.9	16.9	46.3	36.5	17.1	48.7	39.0	17.2	51.2	44.2	17.1	53.7	53.7	17.3	56.2	56.2	17.4	58.6	58.6	17.5	

### OPA 970 at Nominal less 50% (4 700 l/s)

Air on		Outdoor coil entering air temperature °C DB																							
D.B. °C	- 5			- 3			- 1			1			3			5			7			9			
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	
15	37.7	33.0	13.6	39.9	32.6	13.7	42.0	33.1	13.8	44.2	35.3	13.8	46.3	39.8	13.8	48.5	47.4	13.9	50.6	50.6	13.9	52.8	52.8	14.0	
20	37.2	32.6	14.4	39.3	32.2	14.5	41.5	32.7	14.6	43.6	34.9	14.7	45.8	39.4	14.6	47.9	47.0	14.7	50.1	50.1	14.8	52.2	52.2	14.9	
25	36.0	31.7	15.2	38.1	31.3	15.3	40.3	31.8	15.5	42.4	33.9	15.5	44.6	38.4	15.5	46.7	46.0	15.6	48.9	48.9	15.7	51.0	51.0	15.8	

### OPA 970 at Minimum Capacity (4 700 l/s)

Air on		Outdoor coil entering air temperature °C DB																							
D.B. °C	- 5			- 3			- 1			1			3			5			7			9			
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	
15	20.0	17.5	10.1	21.1	17.3	10.2	22.2	17.5	10.2	23.4	18.7	10.2	24.5	21.1	10.2	25.7	25.1	10.2	26.8	26.8	10.3	27.9	27.9	10.3	
20	19.7	17.3	10.5	20.8	17.0	10.6	22.0	17.3	10.6	23.1	18.5	10.6	24.2	20.8	10.6	25.4	24.9	10.7	26.5	26.5	10.7	27.7	27.7	10.7	
25	19.0	16.8	10.9	20.2	16.6	11.0	21.3	16.8	11.1	22.5	18.0	11.1	23.6	20.4	11.1	24.7	24.4	11.1	25.9	25.9	11.2	27.0	27.0	11.2	

## Indoor Air Flow Correction Factors at nominal conditions

### Indoor Air Flow (%)

	-20	-10	Rated	+10
Total Capacity	0.95	0.975	1.0	1.025
Sensible Capacity	0.90	0.950	1.0	1.050

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Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.