




Ducted Packaged Units

Part Load Data

OPA 970 Econex Pro R32




Cooling Capacity
16 kW – 102 kW

Heating Capacity
13 kW – 110 kW

Cooling Capacity (kW)

TC = Total Capacity (kW).
 SC = Sensible Capacity (kW).
 PI = Power Input (kW)
 E.A.T. = Entering Air Temperature .

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

Note: Total Capacity figures are gross and do not include allowance for fan motor heat loss.

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

Indoor coil		Outdoor coil Entering Air Temperature °C DB																	
E.A.T.		23			27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
21	14	92.0	75.2	33.2	90.0	75.1	35.3	87.9	74.8	37.6	85.6	74.4	39.9	83.3	73.7	42.4	80.8	72.9	45.1
	15	95.4	69.8	33.5	93.3	69.6	35.7	91.1	69.2	37.9	88.8	68.6	40.3	86.3	67.9	42.9	83.7	67.0	45.5
	16	98.9	63.6	33.8	96.7	63.2	36.0	94.4	62.7	38.3	92.0	62.0	40.7	89.4	61.2	43.3	86.7	60.3	46.0
	17	102.5	56.4	34.1	100.2	55.9	36.3	97.8	55.2	38.7	95.3	54.5	41.1	92.6	53.6	43.7	89.8	52.6	46.5
23	15	94.9	81.2	33.5	92.8	81.2	35.6	90.6	81.0	37.9	88.3	80.6	40.3	85.9	80.0	42.8	83.3	79.2	45.5
	16	97.9	76.1	33.7	95.7	75.9	35.9	93.5	75.6	38.2	91.1	75.1	40.6	88.5	74.4	43.2	85.9	73.6	45.9
	17	101.5	70.6	34.0	99.2	70.3	36.2	96.8	69.9	38.6	94.3	69.3	41.0	91.7	68.5	43.6	88.9	67.6	46.3
	18	105.1	64.3	34.3	102.8	63.8	36.6	100.3	63.2	38.9	97.7	62.5	41.4	94.9	61.7	44.0	92.1	60.7	46.8
27	18	104.6	88.6	34.3	102.2	88.6	36.5	99.8	88.4	38.9	97.2	88.0	41.4	94.5	87.4	44.0	91.6	86.5	46.7
	19	107.8	83.9	34.5	105.3	83.8	36.8	102.8	83.5	39.2	100.1	83.0	41.7	97.3	82.3	44.3	94.4	81.3	47.1
	20	111.0	78.4	34.8	108.5	78.2	37.1	105.9	77.8	39.5	103.1	77.2	42.0	100.2	76.4	44.7	97.2	75.5	47.5
	22	117.7	65.3	35.3	115.0	64.8	37.6	112.2	64.1	40.1	109.3	63.3	42.7	106.2	62.4	45.5	102.9	61.3	48.3
31	21	115.4	96.7	35.1	112.8	96.7	37.5	110.1	96.5	39.9	107.2	96.1	42.5	104.2	95.5	45.2	101.0	94.5	48.1
	22	118.3	91.8	35.3	115.6	91.7	37.7	112.8	91.4	40.2	109.8	90.9	42.8	106.7	90.2	45.5	103.4	89.2	48.4
	23	121.1	86.3	35.5	118.4	86.1	37.9	115.5	85.7	40.4	112.4	85.1	43.1	109.2	84.4	45.8	105.9	83.3	48.7
	25	127.6	73.6	36.0	124.7	73.2	38.4	121.6	72.6	41.0	118.4	71.8	43.7	115.0	70.9	46.5	111.5	69.8	49.5

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

Indoor coil		Outdoor coil Entering Air Temperature °C DB																	
E.A.T.		23			27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
21	14	87.0	68.9	23.6	85.2	68.9	25.3	83.3	68.8	27.0	81.3	68.6	28.8	79.2	68.2	30.8	77.0	67.6	32.8
	15	90.0	63.6	23.7	88.2	63.5	25.4	86.2	63.3	27.2	84.2	62.9	29.1	82.0	62.4	31.0	79.7	61.8	33.1
	16	93.2	57.5	23.9	91.2	57.3	25.6	89.2	57.0	27.4	87.0	56.5	29.3	84.8	55.9	31.3	82.4	55.2	33.4
	17	96.3	50.6	24.0	94.3	50.2	25.7	92.2	49.8	27.6	90.0	49.2	29.5	87.6	48.5	31.5	85.1	47.7	33.7
23	15	89.6	74.4	23.7	87.8	74.5	25.4	85.8	74.5	27.2	83.7	74.3	29.0	81.6	73.9	31.0	79.3	73.4	33.1
	16	92.3	69.3	23.8	90.4	69.4	25.5	88.3	69.2	27.3	86.2	69.0	29.2	84.0	68.5	31.2	81.6	67.8	33.3
	17	95.4	64.0	24.0	93.4	63.9	25.7	91.3	63.6	27.5	89.1	63.2	29.4	86.8	62.7	31.5	84.3	62.0	33.6
	18	98.7	57.8	24.1	96.6	57.6	25.8	94.4	57.2	27.7	92.1	56.7	29.6	89.7	56.0	31.7	87.1	55.3	33.9
27	18	98.2	80.7	24.1	96.1	80.9	25.8	94.0	80.9	27.7	91.7	80.7	29.6	89.3	80.3	31.7	86.7	79.7	33.8
	19	101.0	76.1	24.2	98.9	76.2	25.9	96.7	76.1	27.8	94.3	75.8	29.8	91.8	75.3	31.9	89.2	74.6	34.0
	20	103.9	70.8	24.3	101.7	70.8	26.1	99.4	70.5	28.0	97.0	70.2	30.0	94.4	69.6	32.1	91.7	68.9	34.3
	22	109.8	58.2	24.5	107.5	57.8	26.3	105.0	57.4	28.3	102.4	56.8	30.3	99.7	56.1	32.5	96.8	55.2	34.7
31	21	107.8	87.6	24.4	105.5	87.8	26.2	103.1	87.9	28.2	100.6	87.7	30.2	97.9	87.3	32.3	95.1	86.6	34.6
	22	110.3	82.8	24.5	108.0	83.0	26.3	105.5	82.9	28.3	102.9	82.7	30.4	100.2	82.2	32.5	97.3	81.5	34.8
	23	112.9	77.5	24.5	110.5	77.6	26.4	107.9	77.4	28.4	105.3	77.1	30.5	102.4	76.5	32.7	99.5	75.8	35.0
	25	118.6	65.5	24.7	116.1	65.2	26.6	113.4	64.8	28.7	110.6	64.3	30.8	107.6	63.6	33.0	104.5	62.7	35.4

Cooling Capacity (kW)

TC = Total Capacity (kW).
 SC = Sensible Capacity (kW).
 PI = Power Input (kW)
 E.A.T. = Entering Air Temperature .

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

Note: Total Capacity figures are **gross** and do not include allowance for fan motor heat loss.

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

Indoor coil		Outdoor coil Entering Air Temperature °c db																				
E.A.T.		23						27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI			
21	14	76.5	62.9	20.2	75.0	62.9	21.6	73.4	62.8	23.1	71.7	62.6	24.7	69.9	62.2	26.5	68.0	61.7	28.3			
	15	79.1	58.3	20.3	77.5	58.2	21.7	75.9	58.0	23.3	74.1	57.7	24.9	72.2	57.2	26.6	70.3	56.6	28.5			
	16	81.8	53.1	20.3	80.2	52.8	21.8	78.5	52.5	23.4	76.6	52.1	25.1	74.7	51.5	26.8	72.6	50.8	28.7			
	17	84.6	47.1	20.4	82.9	46.7	21.9	81.1	46.3	23.5	79.2	45.7	25.2	77.2	45.1	27.0	75.0	44.3	28.9			
23	15	78.7	67.8	20.2	77.2	67.9	21.7	75.5	67.9	23.3	73.7	67.7	24.9	71.9	67.3	26.6	69.9	66.7	28.4			
	16	81.1	63.4	20.3	79.4	63.4	21.8	77.7	63.3	23.4	75.9	63.0	25.0	74.0	62.6	26.8	71.9	62.0	28.6			
	17	83.8	58.8	20.4	82.1	58.7	21.9	80.3	58.4	23.5	78.4	58.0	25.2	76.4	57.5	26.9	74.3	56.9	28.8			
	18	86.6	53.5	20.4	84.9	53.2	22.0	83.0	52.8	23.6	81.0	52.4	25.3	79.0	51.8	27.1	76.8	51.0	29.0			
27	18	86.2	73.6	20.4	84.5	73.7	22.0	82.6	73.7	23.6	80.7	73.5	25.3	78.6	73.2	27.1	76.4	72.6	29.0			
	19	88.7	69.6	20.5	86.9	69.6	22.1	85.0	69.5	23.7	82.9	69.2	25.4	80.8	68.8	27.3	78.5	68.2	29.2			
	20	91.2	65.0	20.5	89.3	64.9	22.1	87.4	64.7	23.8	85.3	64.4	25.6	83.1	63.9	27.4	80.7	63.2	29.3			
	22	96.3	54.1	20.6	94.4	53.8	22.3	92.3	53.3	24.0	90.0	52.8	25.8	87.7	52.1	27.7	85.2	51.3	29.7			
31	21	94.6	79.8	20.6	92.7	80.0	22.2	90.6	80.0	23.9	88.4	79.9	25.7	86.1	79.5	27.6	83.7	78.8	29.6			
	22	96.8	75.7	20.6	94.8	75.8	22.3	92.7	75.8	24.0	90.4	75.5	25.8	88.1	75.0	27.7	85.6	74.4	29.7			
	23	99.0	71.2	20.7	97.0	71.2	22.3	94.8	71.0	24.1	92.5	70.6	25.9	90.1	70.1	27.8	87.5	69.4	29.9			
	25	104.0	60.7	20.7	101.8	60.5	22.5	99.5	60.1	24.3	97.1	59.5	26.1	94.5	58.9	28.1	91.8	58.1	30.2			

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

Indoor coil		Outdoor coil Entering Air Temperature °C DB																				
E.A.T.		23						27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI			
21	14	68.2	59.3	17.5	66.9	59.3	18.8	65.5	59.2	20.1	64.0	59.0	21.6	62.5	58.6	23.1	60.8	57.6	24.7			
	15	70.6	55.3	17.5	69.2	55.2	18.9	67.7	55.0	20.2	66.2	54.7	21.7	64.6	54.2	23.2	62.8	53.6	24.9			
	16	73.0	50.8	17.6	71.5	50.5	18.9	70.0	50.2	20.3	68.4	49.8	21.8	66.7	49.2	23.4	64.9	48.5	25.0			
	17	75.4	45.6	17.6	73.9	45.2	19.0	72.4	44.7	20.4	70.7	44.2	21.9	68.9	43.5	23.5	67.0	42.8	25.2			
23	15	70.2	63.8	17.5	68.9	63.9	18.8	67.4	63.8	20.2	65.9	62.7	21.7	64.3	61.0	23.2	62.5	59.3	24.8			
	16	72.3	60.0	17.6	70.9	60.0	18.9	69.4	59.8	20.3	67.8	59.5	21.8	66.1	59.1	23.3	64.3	58.5	25.0			
	17	74.7	56.0	17.6	73.3	55.8	19.0	71.7	55.6	20.4	70.1	55.2	21.9	68.3	54.7	23.5	66.4	54.0	25.1			
	18	77.2	51.4	17.6	75.7	51.1	19.0	74.1	50.7	20.5	72.4	50.2	22.0	70.5	49.6	23.6	68.6	48.9	25.3			
27	18	76.8	69.2	17.6	75.3	69.4	19.0	73.7	69.3	20.4	72.0	68.8	22.0	70.2	67.0	23.6	68.3	65.1	25.3			
	19	79.0	65.8	17.6	77.5	65.8	19.0	75.8	65.7	20.5	74.1	65.4	22.1	72.2	64.9	23.7	70.2	64.2	25.4			
	20	81.3	61.8	17.7	79.6	61.7	19.1	77.9	61.5	20.6	76.1	61.1	22.1	74.2	60.6	23.8	72.1	59.9	25.5			
	22	85.8	52.3	17.7	84.1	52.0	19.1	82.3	51.5	20.7	80.4	50.9	22.3	78.3	50.3	24.0	76.1	49.4	25.8			
31	21	84.3	75.2	17.7	82.6	75.3	19.1	80.8	75.3	20.6	78.9	75.1	22.2	76.9	73.7	23.9	74.7	71.5	25.7			
	22	86.2	71.7	17.7	84.5	71.7	19.1	82.7	71.6	20.7	80.7	71.3	22.3	78.6	70.8	24.0	76.4	70.1	25.8			
	23	88.2	67.7	17.7	86.4	67.6	19.2	84.5	67.4	20.7	82.5	67.0	22.4	80.4	66.5	24.1	78.1	65.7	25.9			
	25	92.7	58.6	17.7	90.8	58.3	19.2	88.8	57.9	20.8	86.6	57.3	22.5	84.4	56.6	24.3	82.0	55.8	26.1			

Cooling Capacity (kW)

TC = Total Capacity (kW).
 SC = Sensible Capacity (kW).
 PI = Power Input (kW)
 E.A.T. = Entering Air Temperature .

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

Note: Total Capacity figures are **gross** and do not include allowance for fan motor heat loss. .

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

Indoor coil		Outdoor coil Entering Air Temperature °C DB																				
E.A.T.		23						27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI			
21	14	59.7	54.4	14.7	58.5	54.4	15.8	57.3	54.1	16.9	56.0	52.8	18.1	54.7	51.4	19.4	53.2	50.0	20.8			
	15	61.7	51.1	14.7	60.5	50.9	15.8	59.3	50.7	17.0	57.9	50.3	18.2	56.5	49.8	19.5	54.9	49.2	20.9			
	16	63.8	47.2	14.7	62.6	47.0	15.8	61.3	46.6	17.0	59.9	46.1	18.3	58.4	45.6	19.6	56.8	44.9	21.0			
	17	66.0	42.8	14.6	64.7	42.4	15.8	63.3	41.9	17.0	61.9	41.4	18.3	60.3	40.7	19.7	58.6	39.9	21.1			
23	15	61.4	58.2	14.7	60.2	57.0	15.8	59.0	55.8	16.9	57.7	54.4	18.2	56.2	53.0	19.5	54.7	51.5	20.9			
	16	63.2	55.2	14.7	62.0	55.2	15.8	60.7	55.0	17.0	59.3	54.6	18.2	57.8	54.2	19.6	56.2	53.0	21.0			
	17	65.3	51.8	14.7	64.1	51.7	15.8	62.7	51.4	17.0	61.3	50.9	18.3	59.7	50.4	19.7	58.1	49.7	21.1			
	18	67.5	47.9	14.6	66.2	47.6	15.8	64.8	47.2	17.1	63.3	46.7	18.4	61.7	46.1	19.7	60.0	45.3	21.2			
27	18	67.2	63.5	14.6	65.9	62.7	15.8	64.5	61.3	17.1	63.0	59.8	18.4	61.4	58.2	19.7	59.7	56.5	21.2			
	19	69.2	60.6	14.6	67.8	60.6	15.8	66.4	60.4	17.1	64.8	60.0	18.4	63.1	59.5	19.8	61.3	58.1	21.2			
	20	71.1	57.3	14.6	69.7	57.1	15.8	68.2	56.8	17.1	66.6	56.4	18.4	64.9	55.8	19.9	63.0	55.1	21.3			
	22	75.2	49.2	14.5	73.7	48.8	15.8	72.1	48.3	17.1	70.3	47.7	18.5	68.5	47.0	20.0	66.5	46.1	21.5			
31	21	73.8	69.1	14.6	72.3	69.1	15.8	70.8	67.5	17.1	69.1	65.8	18.5	67.3	64.0	19.9	65.3	62.1	21.4			
	22	75.5	66.1	14.5	74.0	66.1	15.8	72.4	65.9	17.1	70.6	65.5	18.5	68.8	64.9	20.0	66.8	63.6	21.5			
	23	77.3	62.7	14.5	75.7	62.6	15.8	74.0	62.3	17.2	72.2	61.9	18.6	70.3	61.2	20.0	68.3	60.4	21.6			
	25	81.2	55.0	14.4	79.5	54.7	15.8	77.8	54.2	17.2	75.9	53.6	18.6	73.8	52.8	20.1	71.6	51.9	21.7			

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

Indoor coil		Outdoor coil Entering Air Temperature °C DB																				
E.A.T.		23						27			31			35			39			43		
D.B. °C	W.B. °C	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI			
21	14	51.1	47.3	12.3	50.1	46.9	13.2	49.1	45.9	14.1	48.1	44.9	15.0	46.9	43.7	16.1	45.7	42.5	17.1			
	15	52.8	44.5	12.3	51.8	44.4	13.2	50.8	44.2	14.1	49.7	43.9	15.1	48.5	43.5	16.1	47.2	42.9	17.2			
	16	54.6	41.2	12.3	53.6	41.0	13.2	52.5	40.7	14.1	51.4	40.3	15.1	50.1	39.8	16.2	48.8	39.2	17.3			
	17	56.4	37.4	12.3	55.4	37.1	13.2	54.3	36.7	14.1	53.0	36.2	15.2	51.7	35.7	16.2	50.4	35.0	17.3			
23	15	52.6	49.3	12.3	51.6	48.4	13.2	50.6	47.3	14.1	49.5	46.2	15.1	48.3	45.1	16.1	47.0	43.8	17.2			
	16	54.1	48.0	12.3	53.1	48.0	13.2	52.0	47.8	14.1	50.9	47.6	15.1	49.6	46.4	16.2	48.3	45.1	17.3			
	17	55.9	45.2	12.3	54.9	45.0	13.2	53.8	44.8	14.1	52.6	44.4	15.2	51.3	44.0	16.2	49.9	43.4	17.3			
	18	57.8	41.8	12.2	56.7	41.6	13.2	55.5	41.3	14.2	54.3	40.8	15.2	52.9	40.3	16.3	51.5	39.6	17.4			
27	18	57.5	54.3	12.2	56.4	53.2	13.2	55.3	52.1	14.2	54.0	50.8	15.2	52.7	49.5	16.3	51.3	48.1	17.4			
	19	59.1	52.7	12.2	58.0	52.7	13.2	56.8	52.5	14.2	55.5	52.3	15.2	54.2	50.9	16.3	52.7	49.5	17.4			
	20	60.8	49.9	12.2	59.6	49.8	13.2	58.4	49.5	14.2	57.1	49.2	15.2	55.6	48.7	16.3	54.1	48.1	17.5			
	22	64.2	43.0	12.1	63.0	42.7	13.1	61.7	42.3	14.2	60.2	41.8	15.3	58.7	41.2	16.4	57.1	40.4	17.6			
31	21	63.1	59.8	12.1	61.9	58.6	13.1	60.6	57.3	14.2	59.2	56.0	15.2	57.7	54.5	16.4	56.1	52.9	17.6			
	22	64.5	57.5	12.1	63.3	57.5	13.1	61.9	57.3	14.2	60.5	57.0	15.3	59.0	55.8	16.4	57.3	54.1	17.6			
	23	66.0	54.6	12.1	64.7	54.5	13.1	63.3	54.3	14.2	61.9	53.9	15.3	60.3	53.4	16.4	58.6	52.8	17.6			
	25	69.3	48.1	12.0	68.0	47.8	13.0	66.5	47.4	14.1	64.9	46.9	15.3	63.3	46.3	16.5	61.5	45.5	17.7			

Performance Data at part load

Cooling Capacity (kW)

TC = Total Capacity (kW).
SC = Sensible Capacity (kW).
PI = Power Input (kW)
E.A.T. = Entering Air Temperature .

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

Note: Total Capacity figures are **gross** and do not include allowance for fan motor heat loss.

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

Indoor coil E.A.T.		Outdoor coil Entering Air Temperature °C DB																	
D.B. °C	W.B. °C	23			27			31			35			39			43		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
21	14	42.4	38.8	10.4	41.7	38.4	11.1	40.9	37.6	11.8	40.0	36.8	12.6	39.1	35.8	13.4	38.1	34.8	14.3
	15	43.9	36.4	10.3	43.1	36.4	11.1	42.3	36.2	11.8	41.4	36.0	12.6	40.4	35.7	13.5	39.3	35.2	14.3
	16	45.4	33.7	10.3	44.6	33.6	11.0	43.7	33.4	11.8	42.7	33.0	12.6	41.7	32.6	13.5	40.6	32.2	14.4
	17	46.9	30.6	10.2	46.1	30.4	11.0	45.2	30.1	11.8	44.2	29.7	12.6	43.1	29.2	13.5	41.9	28.7	14.4
23	15	43.6	40.4	10.3	42.9	39.7	11.1	42.1	38.8	11.8	41.2	37.9	12.6	40.2	37.0	13.5	39.1	35.9	14.3
	16	44.9	39.4	10.3	44.1	39.4	11.1	43.3	39.3	11.8	42.3	39.1	12.6	41.3	38.1	13.5	40.2	37.0	14.4
	17	46.5	37.0	10.3	45.6	36.9	11.0	44.7	36.8	11.8	43.8	36.5	12.6	42.7	36.1	13.5	41.6	35.6	14.4
	18	48.0	34.3	10.2	47.2	34.1	11.0	46.2	33.9	11.8	45.2	33.5	12.6	44.1	33.1	13.5	42.9	32.5	14.4
27	18	47.8	44.6	10.2	47.0	43.7	11.0	46.0	42.8	11.8	45.0	41.8	12.6	43.9	40.7	13.5	42.7	39.5	14.4
	19	49.2	43.4	10.2	48.3	43.4	11.0	47.3	43.3	11.8	46.3	43.1	12.6	45.1	41.9	13.5	43.9	40.7	14.5
	20	50.6	41.0	10.1	49.7	41.0	10.9	48.7	40.8	11.8	47.6	40.5	12.6	46.4	40.1	13.5	45.1	39.6	14.5
	22	53.5	35.4	10.0	52.5	35.1	10.8	51.4	34.8	11.7	50.3	34.4	12.6	49.0	33.9	13.5	47.6	33.2	14.5
31	21	52.5	49.3	10.0	51.6	48.3	10.9	50.5	47.3	11.7	49.4	46.1	12.6	48.1	44.9	13.5	46.7	43.5	14.5
	22	53.8	47.4	10.0	52.8	47.5	10.8	51.7	47.4	11.7	50.5	47.1	12.6	49.2	46.0	13.5	47.8	44.6	14.5
	23	55.0	45.1	9.9	54.0	45.0	10.8	52.9	44.9	11.7	51.7	44.6	12.6	50.3	44.1	13.5	48.9	43.5	14.5
	25	57.9	39.7	9.7	56.8	39.5	10.6	55.6	39.2	11.6	54.3	38.7	12.5	52.9	38.2	13.5	51.3	37.5	14.5

OPA 970 at Minimum capacity (4 700 l/s)

Indoor coil E.A.T.		Outdoor coil Entering Air Temperature °C DB																	
D.B. °C	W.B. °C	23			27			31			35			39			43		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
21	14	28.7	25.2	8.4	28.3	25.0	8.9	27.7	24.5	9.4	27.2	24.0	10.0	26.6	23.3	10.5	25.9	22.7	11.1
	15	29.7	23.6	8.3	29.2	23.6	8.9	28.7	23.5	9.4	28.1	23.4	10.0	27.4	23.2	10.5	26.7	22.9	11.1
	16	30.7	21.8	8.3	30.2	21.7	8.8	29.6	21.6	9.4	29.0	21.4	9.9	28.3	21.1	10.5	27.6	20.8	11.1
	17	31.7	19.7	8.2	31.2	19.5	8.8	30.6	19.3	9.3	30.0	19.1	9.9	29.3	18.8	10.5	28.5	18.4	11.1
23	15	29.6	26.3	8.3	29.1	25.9	8.9	28.5	25.3	9.4	28.0	24.7	10.0	27.3	24.1	10.5	26.6	23.4	11.1
	16	30.4	25.6	8.3	29.9	25.7	8.8	29.4	25.6	9.4	28.7	25.5	9.9	28.1	24.9	10.5	27.4	24.1	11.1
	17	31.4	24.0	8.2	30.9	24.0	8.8	30.3	23.9	9.3	29.7	23.7	9.9	29.0	23.5	10.5	28.3	23.2	11.1
	18	32.5	22.1	8.2	31.9	22.0	8.7	31.3	21.9	9.3	30.7	21.7	9.9	29.9	21.4	10.5	29.2	21.1	11.2
27	18	32.3	29.1	8.2	31.8	28.6	8.7	31.2	28.0	9.3	30.5	27.3	9.9	29.8	26.6	10.5	29.0	25.8	11.2
	19	33.2	28.3	8.1	32.7	28.3	8.7	32.1	28.3	9.3	31.4	28.2	9.9	30.6	27.4	10.5	29.8	26.6	11.2
	20	34.2	26.7	8.1	33.6	26.7	8.7	33.0	26.6	9.2	32.2	26.4	9.9	31.5	26.2	10.5	30.6	25.8	11.2
	22	36.1	22.8	7.9	35.5	22.7	8.5	34.8	22.5	9.2	34.0	22.2	9.8	33.2	21.9	10.5	32.3	21.5	11.1
31	21	35.5	32.2	8.0	34.9	31.6	8.6	34.2	31.0	9.2	33.4	30.2	9.8	32.6	29.4	10.5	31.7	28.5	11.1
	22	36.3	31.0	7.9	35.7	31.0	8.5	35.0	31.0	9.2	34.2	30.9	9.8	33.4	30.1	10.5	32.4	29.2	11.1
	23	37.1	29.4	7.9	36.5	29.4	8.5	35.8	29.3	9.1	35.0	29.1	9.8	34.1	28.9	10.4	33.2	28.5	11.1
	25	39.0	25.7	7.7	38.3	25.6	8.4	37.6	25.4	9.0	36.7	25.1	9.7	35.8	24.8	10.4	34.8	24.4	11.1

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	86.3	86.3	25.7	90.0	90.0	26.0
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.