



Ducted Packaged Units

Part Load Data

OPA 970 Econex R32




Cooling Capacity
15 kW – 99.2 kW




Heating Capacity
14 kW – 96 kW

Cooling Capacity (kW)

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

Nominal Air Flow: **4 800 l/s**

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

OPA 970 Econex @Maximum capacity (4 800 l/s)

Indoor coil
 E.A.T.

Outdoor coil Entering Air Temperature °C DB

D.B. °C	W.B. °C	20			25			30			35			40			45			50		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
20	14	94.2	71.8	25.3	91.6	71.4	27.5	88.7	70.8	29.7	85.7	69.8	32.2	82.3	68.6	34.8	74.5	62.2	33.3	71.4	60.9	36.1
	15	97.8	65.7	25.5	95.1	65.1	27.6	92.1	64.3	30.0	88.9	63.3	32.5	85.4	61.9	35.2	77.1	55.8	33.6	73.9	54.4	36.4
	16	101.6	58.8	25.6	98.7	58.1	27.8	95.6	57.1	30.2	92.2	55.9	32.7	88.6	54.4	35.5	80.0	48.6	33.9	76.6	47.2	36.7
	17	105.7	51.0	25.8	102.7	50.0	28.0	99.4	48.8	30.4	95.8	47.5	33.0	92.0	45.9	35.8	83.0	40.5	34.2	79.4	39.0	37.1
22	16	100.3	72.6	25.6	97.4	72.2	27.8	94.3	71.5	30.1	91.0	70.5	32.6	87.4	69.1	35.4	78.9	62.5	33.8	75.6	61.0	36.6
	17	103.8	66.3	25.7	100.8	65.7	27.9	97.6	64.8	30.3	94.2	63.7	32.9	90.4	62.2	35.7	81.6	55.9	34.0	78.1	54.4	36.9
	18	107.6	59.3	25.8	104.5	58.4	28.1	101.1	57.4	30.5	97.5	56.1	33.1	93.6	54.5	36.0	84.3	48.6	34.3	80.7	47.0	37.2
	19	111.5	51.3	25.9	108.3	50.2	28.2	104.8	48.9	30.7	101.0	47.5	33.4	97.0	45.9	36.3	87.3	40.3	34.6	83.5	38.8	37.6
24	16	100.0	84.3	25.6	97.1	84.1	27.7	94.1	83.7	30.1	90.7	82.8	32.6	87.2	81.5	35.3	78.7	73.8	33.7	75.4	71.6	36.6
	18	106.4	73.5	25.8	103.3	72.9	28.0	100.0	72.2	30.4	96.4	71.1	33.1	92.6	69.6	35.9	83.5	62.8	34.2	79.9	61.2	37.1
	20	113.6	59.6	26.0	110.3	58.7	28.3	106.8	57.5	30.8	102.9	56.2	33.5	98.7	54.6	36.4	88.8	48.4	34.7	84.9	46.8	37.7
	21	117.5	51.4	26.1	114.1	50.3	28.5	110.4	49.0	31.0	106.4	47.5	33.8	102.0	45.8	36.7	91.7	40.1	35.0	87.7	38.5	38.0
26	17	103.3	90.3	25.7	100.3	90.3	27.9	97.2	89.8	30.3	93.7	89.0	32.8	90.0	86.7	35.6	81.2	77.9	34.0	77.7	74.4	36.9
	19	109.3	80.2	25.9	106.2	79.8	28.2	102.8	79.1	30.6	99.1	78.1	33.3	95.1	76.6	36.1	85.6	69.2	34.4	81.9	67.6	37.4
	20	112.6	74.2	26.0	109.3	73.6	28.3	105.8	72.8	30.8	102.0	71.6	33.5	91.3	64.0	32.3	88.1	63.0	34.7	84.2	61.4	37.6
	22	119.8	59.9	26.2	116.3	58.9	28.6	112.5	57.7	31.1	108.4	56.3	33.9	96.8	49.5	32.7	93.4	48.3	35.1	89.3	46.7	38.2
27	18	106.5	91.1	25.8	103.4	91.0	28.0	100.1	90.6	30.5	96.5	89.7	33.1	92.6	81.1	31.9	83.5	79.3	34.2	79.9	76.6	37.1
	19	109.4	86.2	25.9	106.3	85.9	28.2	102.9	85.3	30.6	99.2	84.3	33.3	95.3	76.0	32.1	85.7	75.1	34.4	82.0	73.5	37.4
	20	112.5	80.7	26.0	109.2	80.3	28.3	105.7	79.5	30.8	101.9	78.4	33.5	91.2	70.4	32.3	88.0	69.4	34.7	84.2	67.8	37.6
	22	119.2	67.7	26.2	115.7	66.9	28.5	112.0	65.9	31.1	107.9	64.5	33.9	96.4	57.2	32.6	93.0	56.1	35.1	88.9	54.4	38.2
28	18	106.9	96.3	25.8	103.9	96.4	28.1	100.5	96.0	30.5	96.9	93.6	33.1	92.9	83.6	31.9	83.9	80.6	34.3	80.3	77.0	37.2
	20	112.7	86.7	26.0	109.4	86.4	28.3	105.9	85.8	30.8	102.0	84.7	33.5	91.3	76.3	32.3	88.1	75.4	34.7	84.3	73.7	37.6
	22	119.0	75.0	26.2	115.5	74.3	28.5	111.7	73.4	31.1	107.7	72.1	33.9	96.2	64.3	32.6	92.8	63.2	35.1	88.7	61.5	38.1
	24	126.1	60.3	26.3	122.3	59.2	28.8	118.3	58.0	31.4	114.0	56.5	34.3	101.7	49.4	33.0	98.0	48.2	35.5	93.7	46.5	38.7
30	19	110.9	102.3	25.9	107.6	102.4	28.2	104.2	100.9	30.7	100.4	97.1	33.4	96.9	86.6	32.2	86.8	83.5	34.5	83.0	79.7	37.5
	21	116.3	93.1	26.1	112.9	92.9	28.4	109.2	92.3	31.0	105.3	91.3	33.7	94.1	82.3	32.5	90.8	81.4	34.9	86.8	79.7	37.9
	23	122.3	82.0	26.2	118.7	81.5	28.7	114.8	80.6	31.3	110.6	79.4	34.0	98.7	71.0	32.8	95.2	69.9	35.3	91.0	68.2	38.4
	25	128.9	68.4	26.4	125.1	67.5	28.9	121.0	66.4	31.6	116.5	64.9	34.4	103.9	57.3	33.2	100.1	56.1	35.7	95.6	54.3	38.9
32	21	117.5	104.0	26.1	114.1	104.1	28.5	110.4	103.6	31.0	106.4	102.3	33.8	95.1	91.3	32.6	91.7	88.4	35.0	87.7	84.4	38.0
	23	122.9	94.4	26.3	119.3	94.2	28.7	115.4	93.5	31.3	111.2	92.4	34.1	99.2	83.1	32.8	95.7	82.1	35.3	91.5	80.4	38.4
	25	128.9	82.8	26.4	125.1	82.3	28.9	121.0	81.3	31.6	116.5	80.1	34.4	103.9	71.4	33.2	100.1	70.3	35.7	95.6	68.5	38.9
	26	132.2	76.1	26.5	128.2	75.4	29.0	124.0	74.3	31.7	119.4	72.9	34.6	106.4	64.6	33.3	102.5	63.5	35.9	97.9	61.7	39.1

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 Capacity (kW)

Nominal Air Flow: **4 800 l/s**

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

OPA 970 Econex @Nominal Capacity (4 800 l/s)

Indoor coil
E.A.T.

Outdoor coil Entering Air Temperature °C DB

D.B. °C	W.B. °C	20			25			30			35			40			45			50		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
20	14	88.2	65.9	22.3	85.7	65.6	24.3	83.0	65.0	26.4	80.2	64.2	28.7	77.1	63.0	31.1	74.5	62.2	33.3	71.4	60.9	36.1
	15	91.5	60.1	22.4	88.9	59.6	24.4	86.1	58.9	26.6	83.1	57.9	28.9	79.8	56.7	31.3	77.1	55.8	33.6	73.9	54.4	36.4
	16	95.0	53.6	22.5	92.3	52.9	24.5	89.4	52.0	26.7	86.2	50.9	29.1	82.8	49.6	31.6	80.0	48.6	33.9	76.6	47.2	36.7
	17	98.7	46.2	22.6	95.8	45.3	24.7	92.8	44.2	26.9	89.5	43.0	29.3	85.9	41.6	31.9	83.0	40.5	34.2	79.4	39.0	37.1
22	16	93.7	66.5	22.5	91.0	66.1	24.5	88.2	65.5	26.7	85.1	64.6	29.0	81.7	63.3	31.5	78.9	62.5	33.8	75.6	61.0	36.6
	17	96.9	60.6	22.6	94.2	60.0	24.6	91.2	59.2	26.8	88.0	58.2	29.2	84.5	56.8	31.7	81.6	55.9	34.0	78.1	54.4	36.9
	18	100.4	53.9	22.6	97.5	53.1	24.7	94.4	52.2	27.0	91.0	51.0	29.4	87.4	49.6	32.0	84.3	48.6	34.3	80.7	47.0	37.2
	19	104.0	46.3	22.7	101.0	45.4	24.8	97.8	44.2	27.1	94.3	42.9	29.6	90.4	41.5	32.2	87.3	40.3	34.6	83.5	38.8	37.6
24	16	93.4	77.4	22.5	90.8	77.3	24.5	87.9	76.9	26.6	84.8	76.1	29.0	81.5	74.9	31.5	78.7	73.8	33.7	75.4	71.6	36.6
	18	99.3	67.1	22.6	96.4	66.7	24.7	93.4	66.0	26.9	90.0	65.0	29.3	86.4	63.7	31.9	83.5	62.8	34.2	79.9	61.2	37.1
	20	105.9	54.1	22.7	102.9	53.2	24.9	99.5	52.2	27.2	95.9	51.0	29.7	92.0	49.5	32.3	88.8	48.4	34.7	84.9	46.8	37.7
	21	109.5	46.4	22.8	106.3	45.3	25.0	102.9	44.2	27.3	99.1	42.8	29.8	95.1	41.3	32.6	91.7	40.1	35.0	87.7	38.5	38.0
26	17	96.5	83.0	22.5	93.7	83.0	24.6	90.8	82.6	26.8	87.6	81.8	29.2	84.1	79.7	31.7	81.2	77.9	34.0	77.7	74.4	36.9
	19	102.0	73.4	22.7	99.1	73.1	24.8	95.9	72.4	27.0	92.5	71.5	29.5	88.7	70.1	32.1	85.6	69.2	34.4	81.9	67.6	37.4
	20	105.0	67.7	22.7	102.0	67.2	24.8	98.7	66.5	27.1	95.1	65.4	29.6	91.3	64.0	32.3	88.1	63.0	34.7	84.2	61.4	37.6
	22	111.6	54.2	22.8	108.3	53.3	25.0	104.8	52.3	27.4	101.0	51.0	29.9	96.8	49.5	32.7	93.4	48.3	35.1	89.3	46.7	38.2
27	18	99.4	83.6	22.6	96.5	83.6	24.7	93.5	83.2	26.9	90.1	82.4	29.3	86.5	81.1	31.9	83.5	79.3	34.2	79.9	76.6	37.1
	19	102.1	78.9	22.7	99.1	78.7	24.8	96.0	78.2	27.0	92.5	77.3	29.5	88.8	76.0	32.1	85.7	75.1	34.4	82.0	73.5	37.4
	20	104.9	73.8	22.7	101.9	73.4	24.8	98.6	72.8	27.1	95.0	71.8	29.6	91.2	70.4	32.3	88.0	69.4	34.7	84.2	67.8	37.6
	22	111.1	61.5	22.8	107.8	60.8	25.0	104.3	59.9	27.4	100.5	58.7	29.9	96.4	57.2	32.6	93.0	56.1	35.1	88.9	54.4	38.2
28	18	99.8	88.5	22.6	96.9	88.6	24.7	93.9	88.2	26.9	90.5	86.3	29.3	86.9	83.6	31.9	83.9	80.6	34.3	80.3	77.0	37.2
	20	105.0	79.4	22.7	102.0	79.1	24.8	98.7	78.6	27.1	95.2	77.6	29.6	91.3	76.3	32.3	88.1	75.4	34.7	84.3	73.7	37.6
	22	110.8	68.3	22.8	107.6	67.7	25.0	104.1	66.9	27.4	100.3	65.7	29.9	96.2	64.3	32.6	92.8	63.2	35.1	88.7	61.5	38.1
	24	117.3	54.4	22.9	113.9	53.5	25.1	110.1	52.4	27.6	106.1	51.0	30.2	101.7	49.4	33.0	98.0	48.2	35.5	93.7	46.5	38.7
30	19	103.4	93.9	22.7	100.4	94.0	24.8	97.2	92.7	27.1	93.7	90.4	29.5	89.9	86.6	32.2	86.8	83.5	34.5	83.0	79.7	37.5
	21	108.4	85.2	22.8	105.2	85.1	24.9	101.8	84.6	27.3	98.1	83.7	29.8	94.1	82.3	32.5	90.8	81.4	34.9	86.8	79.7	37.9
	23	113.8	74.7	22.8	110.5	74.3	25.1	106.9	73.5	27.5	103.0	72.4	30.0	98.7	71.0	32.8	95.2	69.9	35.3	91.0	68.2	38.4
	25	119.9	62.0	22.9	116.4	61.2	25.2	112.5	60.1	27.7	108.4	58.8	30.3	103.9	57.3	33.2	100.1	56.1	35.7	95.6	54.3	38.9
32	21	109.5	95.4	22.8	106.3	95.4	25.0	102.9	95.1	27.3	99.1	93.9	29.8	95.1	91.3	32.6	91.7	88.4	35.0	87.7	84.4	38.0
	23	114.4	86.3	22.8	111.1	86.1	25.1	107.5	85.5	27.5	103.5	84.6	30.1	99.2	83.1	32.8	95.7	82.1	35.3	91.5	80.4	38.4
	25	119.9	75.4	22.9	116.4	74.9	25.2	112.5	74.1	27.7	108.4	72.9	30.3	103.9	71.4	33.2	100.1	70.3	35.7	95.6	68.5	38.9
	26	122.9	69.1	22.9	119.2	68.4	25.2	115.3	67.5	27.7	111.0	66.2	30.4	106.4	64.6	33.3	102.5	63.5	35.9	97.9	61.7	39.1

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: **4 800 l/s**

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

OPA 970 Econex @Maximum less 25% (4 800 l/s)

Indoor coil
 E.A.T.

Outdoor coil Entering Air Temperature °C DB

D.B. °C	W.B. °C	20			25			30			35			40			45			50		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
20	14	71.1	55.6	17.4	69.1	55.3	19.0	67.0	54.7	20.7	64.6	53.9	22.5	62.0	52.9	24.5	60.0	52.2	26.2	57.5	51.0	28.5
	15	73.7	51.0	17.4	71.7	50.5	19.0	69.4	49.9	20.8	66.9	49.0	22.6	64.2	47.8	24.7	62.1	47.1	26.4	59.5	45.8	28.7
	16	76.5	45.9	17.4	74.3	45.2	19.0	72.0	44.4	20.8	69.4	43.4	22.7	66.6	42.2	24.8	64.3	41.3	26.6	61.6	40.1	28.9
	17	79.5	40.0	17.4	77.2	39.2	19.1	74.7	38.2	20.9	72.0	37.1	22.8	69.0	35.8	24.9	66.7	34.9	26.8	63.8	33.6	29.1
22	16	75.5	56.2	17.4	73.4	55.8	19.0	71.0	55.2	20.8	68.5	54.4	22.7	65.7	53.2	24.7	63.5	52.5	26.5	60.8	51.2	28.8
	17	78.1	51.5	17.4	75.9	51.0	19.1	73.4	50.2	20.9	70.8	49.3	22.8	67.9	48.1	24.9	65.6	47.2	26.7	62.8	45.9	29.0
	18	80.8	46.2	17.3	78.5	45.5	19.1	75.9	44.7	20.9	73.2	43.6	22.9	70.1	42.3	25.0	67.8	41.4	26.8	64.8	40.0	29.2
	19	83.7	40.2	17.3	81.3	39.4	19.1	78.6	38.4	21.0	75.7	37.2	23.0	72.6	35.8	25.1	70.1	34.8	27.0	67.0	33.5	29.4
24	16	75.3	65.0	17.4	73.1	64.9	19.0	70.8	64.4	20.8	68.3	63.5	22.7	65.5	61.7	24.7	63.4	60.1	26.5	60.7	57.4	28.8
	18	79.9	56.9	17.4	77.6	56.4	19.1	75.1	55.8	20.9	72.4	54.8	22.9	69.4	53.6	25.0	67.1	52.8	26.8	64.1	51.4	29.2
	20	85.2	46.5	17.3	82.7	45.8	19.1	80.0	44.8	21.0	77.1	43.7	23.0	73.8	42.4	25.2	71.3	41.4	27.1	68.1	39.9	29.5
	21	88.1	40.5	17.3	85.5	39.5	19.1	82.7	38.4	21.0	79.6	37.2	23.1	76.2	35.8	25.3	73.5	34.7	27.2	70.2	33.3	29.7
26	17	77.7	69.6	17.4	75.5	69.5	19.0	73.1	68.6	20.8	70.4	67.1	22.8	67.6	64.3	24.9	65.3	62.0	26.7	62.5	59.2	29.0
	19	82.1	62.0	17.3	79.7	61.6	19.1	77.1	61.0	20.9	74.3	60.1	22.9	71.2	58.8	25.1	68.8	58.0	26.9	65.8	56.6	29.3
	20	84.5	57.5	17.3	82.0	57.0	19.1	79.3	56.3	21.0	76.4	55.3	23.0	73.2	53.9	25.2	70.7	53.1	27.0	67.5	51.6	29.5
	22	89.7	46.8	17.2	87.1	46.0	19.1	84.2	45.0	21.0	81.0	43.8	23.1	77.6	42.4	25.4	74.8	41.4	27.3	71.5	39.9	29.8
27	18	80.0	70.1	17.4	77.7	70.0	19.1	75.2	69.6	20.9	72.5	68.2	22.9	69.5	66.2	25.0	67.1	63.8	26.8	64.2	60.9	29.2
	19	82.2	66.4	17.3	79.8	66.2	19.1	77.2	65.6	20.9	74.4	64.8	22.9	71.3	63.5	25.1	68.8	62.7	26.9	65.8	61.1	29.3
	20	84.4	62.4	17.3	81.9	62.0	19.1	79.3	61.3	21.0	76.3	60.4	23.0	73.1	59.1	25.2	70.6	58.2	27.0	67.5	56.8	29.5
	22	89.3	52.7	17.3	86.7	52.0	19.1	83.8	51.1	21.0	80.7	50.0	23.1	77.2	48.6	25.4	74.5	47.6	27.3	71.2	46.1	29.8
28	18	80.4	74.1	17.3	78.0	73.5	19.1	75.5	72.2	20.9	72.8	69.5	22.9	69.8	66.5	25.0	67.4	64.1	26.8	64.5	61.2	29.2
	20	84.5	66.9	17.3	82.1	66.6	19.1	79.4	66.0	21.0	76.4	65.1	23.0	73.2	63.8	25.2	70.7	63.0	27.1	67.6	61.5	29.5
	22	89.1	58.1	17.3	86.5	57.5	19.1	83.6	56.7	21.0	80.5	55.7	23.1	77.1	54.3	25.4	74.4	53.3	27.3	71.0	51.8	29.8
	24	94.3	47.2	17.2	91.5	46.3	19.1	88.4	45.3	21.1	85.0	44.0	23.2	81.4	42.5	25.5	78.5	41.5	27.5	74.9	39.9	30.1
30	19	83.2	78.2	17.3	80.8	77.2	19.1	78.2	74.9	20.9	75.3	72.0	23.0	72.1	68.9	25.1	69.7	66.4	27.0	66.6	63.3	29.4
	21	87.1	71.7	17.3	84.6	71.5	19.1	81.8	70.9	21.0	78.8	70.0	23.1	75.4	68.7	25.3	72.8	67.8	27.2	69.5	65.5	29.7
	23	91.5	63.4	17.2	88.8	62.9	19.1	85.8	62.2	21.0	82.6	61.1	23.2	79.1	59.7	25.4	76.3	58.8	27.4	72.8	57.2	29.9
	25	96.3	53.3	17.1	93.5	52.5	19.0	90.3	51.6	21.1	86.9	50.3	23.3	83.1	48.9	25.6	80.1	47.8	27.6	76.4	46.2	30.2
32	21	88.1	79.8	17.3	85.5	79.8	19.1	82.7	78.5	21.0	79.6	76.3	23.1	76.2	72.9	25.3	73.5	70.3	27.2	70.2	66.9	29.7
	23	92.0	72.7	17.2	89.3	72.4	19.1	86.3	71.8	21.1	83.0	70.8	23.2	79.5	69.4	25.5	76.7	68.6	27.4	73.2	66.9	30.0
	25	96.3	64.1	17.1	93.5	63.5	19.0	90.3	62.7	21.1	86.9	61.6	23.3	83.1	60.1	25.6	80.1	59.1	27.6	76.4	57.5	30.2
	26	98.7	59.1	17.1	95.7	58.4	19.0	92.5	57.5	21.1	88.9	56.3	23.3	85.0	54.8	25.7	82.0	53.8	27.7	78.2	52.1	30.4

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: **4 800 l/s**

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

OPA 970 Econex @Maximum less 50% (4 800 l/s)

Indoor coil
E.A.T.

Outdoor coil Entering Air Temperature °C DB

D.B. °C	W.B. °C	20			25			30			35			40			45			50		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
20	14	46.9	32.1	14.1	45.8	32.2	15.1	44.6	32.1	16.2	43.3	31.9	17.4	41.9	31.6	18.7	40.5	31.2	20.0	38.9	30.6	21.5
	15	48.6	29.1	14.1	47.5	29.0	15.2	46.3	28.8	16.3	44.9	28.6	17.5	43.5	28.2	18.8	42.0	27.7	20.2	40.3	27.1	21.7
	16	50.5	25.6	14.2	49.3	25.4	15.3	48.0	25.1	16.4	46.6	24.8	17.6	45.1	24.3	18.9	43.5	23.8	20.4	41.8	23.1	21.9
	17	52.5	21.6	14.2	51.3	21.3	15.3	49.9	20.9	16.5	48.5	20.4	17.7	46.9	19.9	19.1	45.2	19.3	20.5	43.5	18.7	22.1
22	16	49.8	32.5	14.1	48.6	32.5	15.2	47.4	32.4	16.4	46.0	32.2	17.6	44.5	31.8	18.9	43.0	31.3	20.3	41.3	30.7	21.8
	17	51.6	29.3	14.2	50.4	29.2	15.3	49.0	29.0	16.5	47.6	28.7	17.7	46.1	28.3	19.0	44.4	27.7	20.4	42.7	27.1	22.0
	18	53.4	25.7	14.2	52.1	25.5	15.4	50.8	25.2	16.5	49.3	24.8	17.8	47.7	24.3	19.1	46.0	23.7	20.6	44.2	23.1	22.2
	19	55.4	21.6	14.3	54.1	21.3	15.4	52.6	20.9	16.6	51.1	20.4	17.9	49.4	19.8	19.3	47.7	19.2	20.7	45.8	18.5	22.3
24	16	49.7	38.3	14.1	48.5	38.5	15.2	47.2	38.5	16.4	45.9	38.4	17.6	44.4	38.1	18.9	42.8	37.7	20.3	41.2	37.1	21.8
	18	52.8	32.8	14.2	51.6	32.7	15.3	50.2	32.6	16.5	48.8	32.4	17.8	47.2	32.0	19.1	45.5	31.5	20.5	43.7	30.8	22.1
	20	56.4	25.7	14.3	55.1	25.5	15.4	53.6	25.2	16.7	52.0	24.7	18.0	50.3	24.2	19.3	48.5	23.6	20.8	46.6	23.0	22.4
	21	58.4	21.6	14.3	56.9	21.2	15.5	55.4	20.8	16.7	53.8	20.3	18.1	52.0	19.7	19.5	50.2	19.1	21.0	48.2	18.4	22.6
26	17	51.3	41.2	14.2	50.1	41.5	15.3	48.8	41.5	16.4	47.4	41.5	17.7	45.9	41.2	19.0	44.2	40.6	20.4	42.5	38.9	22.0
	19	54.3	36.1	14.2	53.0	36.1	15.4	51.6	36.1	16.6	50.1	35.9	17.8	48.5	35.5	19.2	46.7	35.0	20.7	44.9	34.4	22.2
	20	55.9	33.0	14.3	54.6	33.0	15.4	53.1	32.8	16.6	51.6	32.6	17.9	49.9	32.2	19.3	48.1	31.6	20.8	46.2	30.9	22.4
	22	59.5	25.8	14.3	58.0	25.5	15.5	56.5	25.2	16.8	54.8	24.7	18.1	53.0	24.2	19.5	51.1	23.6	21.0	49.1	22.9	22.7
27	18	52.9	41.5	14.2	51.6	41.8	15.3	50.3	41.9	16.5	48.8	41.8	17.8	47.2	41.5	19.1	45.6	41.1	20.5	43.8	40.2	22.1
	19	54.3	39.0	14.2	53.0	39.2	15.4	51.6	39.2	16.6	50.1	39.0	17.8	48.5	38.7	19.2	46.8	38.2	20.7	44.9	37.6	22.2
	20	55.9	36.2	14.3	54.5	36.3	15.4	53.1	36.2	16.6	51.5	36.0	17.9	49.8	35.6	19.3	48.1	35.1	20.8	46.2	34.5	22.4
	22	59.2	29.7	14.3	57.8	29.5	15.5	56.2	29.3	16.8	54.5	28.9	18.1	52.8	28.4	19.5	50.9	27.8	21.0	48.9	27.1	22.7
28	18	53.1	44.1	14.2	51.8	44.4	15.3	50.5	44.6	16.5	49.0	44.5	17.8	47.4	43.8	19.1	45.7	42.1	20.6	44.0	40.3	22.1
	20	55.9	39.2	14.3	54.6	39.4	15.4	53.1	39.4	16.6	51.6	39.2	17.9	49.9	38.9	19.3	48.1	38.4	20.8	46.2	37.7	22.4
	22	59.1	33.3	14.3	57.6	33.2	15.5	56.1	33.0	16.8	54.4	32.7	18.1	52.7	32.3	19.5	50.8	31.7	21.0	48.8	31.1	22.7
	24	62.6	25.9	14.4	61.0	25.6	15.6	59.4	25.2	16.9	57.6	24.7	18.3	55.7	24.2	19.7	53.7	23.5	21.3	51.6	22.8	22.9
30	19	55.0	47.0	14.3	53.7	47.3	15.4	52.3	47.5	16.6	50.8	47.2	17.9	49.1	45.5	19.2	47.4	43.8	20.7	45.5	41.9	22.3
	21	57.7	42.3	14.3	56.3	42.5	15.5	54.8	42.6	16.7	53.2	42.5	18.0	51.5	42.2	19.4	49.6	41.7	20.9	47.7	41.0	22.5
	23	60.7	36.7	14.4	59.2	36.7	15.6	57.6	36.6	16.8	55.9	36.4	18.2	54.1	36.0	19.6	52.1	35.4	21.1	50.1	34.7	22.8
	25	64.0	29.9	14.4	62.4	29.7	15.6	60.7	29.4	16.9	58.9	29.0	18.3	57.0	28.5	19.8	54.9	27.8	21.3	52.8	27.1	23.0
32	21	58.4	47.7	14.3	56.9	48.1	15.5	55.4	48.2	16.7	53.8	48.2	18.1	52.0	48.0	19.5	50.2	46.6	21.0	48.2	44.6	22.6
	23	61.0	42.9	14.4	59.5	43.0	15.6	57.9	43.1	16.8	56.2	42.9	18.2	54.4	42.6	19.6	52.4	42.1	21.2	50.4	41.4	22.8
	25	64.0	37.0	14.4	62.4	37.0	15.6	60.7	36.9	16.9	58.9	36.6	18.3	57.0	36.2	19.8	54.9	35.6	21.3	52.8	34.9	23.0
	26	65.6	33.6	14.4	64.0	33.5	15.7	62.2	33.3	17.0	60.4	33.0	18.4	58.4	32.5	19.9	56.3	31.9	21.5	54.1	31.2	23.2

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: **4 800 l/s**

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

OPA 970 Econex @Minimum capacity (4 800 l/s)

Indoor coil
 E.A.T.

Outdoor coil Entering Air Temperature °C DB

D.B. °C	W.B. °C	20			25			30			35			40			45			50		
		TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
20	14	17.6	12.9	6.1	14.0	9.7	6.0	13.7	9.7	6.3	13.3	9.6	6.7	15.9	12.6	7.8	15.4	12.1	8.3	14.8	11.5	8.8
	15	18.3	11.8	6.1	14.5	8.8	6.0	14.2	8.8	6.3	13.8	8.6	6.7	16.5	11.3	7.8	15.9	11.1	8.3	15.3	10.7	8.8
	16	19.0	10.6	6.1	15.1	7.8	5.9	14.7	7.7	6.3	14.3	7.5	6.7	17.1	10.0	7.8	16.5	9.6	8.3	18.6	11.5	9.8
	17	19.7	9.2	6.0	15.7	6.7	5.9	15.3	6.5	6.3	14.9	6.3	6.7	17.8	8.4	7.8	17.1	8.0	8.3	19.3	9.6	9.9
22	16	18.7	13.2	6.1	14.9	9.9	6.0	14.5	9.9	6.3	14.1	9.8	6.7	16.9	12.8	7.8	16.3	12.5	8.3	18.4	14.8	9.8
	17	19.4	12.1	6.0	15.4	9.0	5.9	15.0	8.9	6.3	14.6	8.8	6.7	17.5	11.5	7.8	16.8	11.2	8.3	19.0	13.3	9.9
	18	20.1	10.8	6.0	16.0	8.0	5.9	15.6	7.9	6.3	15.1	7.7	6.7	18.1	10.1	7.8	17.4	9.8	8.3	19.6	11.6	9.9
	19	20.8	9.4	5.9	16.6	6.8	5.8	16.2	6.6	6.2	15.7	6.4	6.6	18.7	8.5	7.8	18.0	8.1	8.3	20.3	9.7	9.9
24	16	18.7	15.3	6.1	14.8	11.5	6.0	14.5	11.2	6.3	14.1	10.8	6.7	16.8	13.5	7.8	16.2	12.9	8.3	18.4	15.0	9.8
	18	19.8	13.4	6.0	15.8	10.2	5.9	15.4	10.1	6.3	15.0	10.0	6.7	17.9	13.0	7.8	17.2	12.7	8.3	19.4	15.0	9.9
	20	21.2	11.0	5.9	16.9	8.1	5.8	20.3	10.7	6.8	19.7	10.5	7.3	19.0	10.2	7.8	18.3	9.8	8.3	20.6	11.7	9.9
	21	21.9	9.6	5.9	21.5	9.4	6.3	20.9	9.2	6.8	20.3	8.9	7.3	19.7	8.6	7.8	18.9	8.2	8.3	21.3	9.7	10.0
26	17	19.3	16.0	6.0	15.3	12.0	5.9	15.0	11.6	6.3	14.5	11.2	6.7	17.4	14.1	7.8	16.8	13.4	8.3	18.9	15.6	9.9
	19	20.4	14.8	6.0	16.2	11.3	5.9	15.8	11.2	6.3	15.4	11.1	6.7	18.3	14.4	7.8	17.7	14.1	8.3	19.9	16.6	9.9
	20	21.0	13.7	5.9	16.7	10.4	5.8	16.3	10.3	6.2	19.5	13.4	7.3	18.9	13.2	7.8	18.2	12.8	8.3	20.5	15.2	9.9
	22	22.4	11.2	5.8	21.9	11.1	6.3	21.3	10.9	6.8	20.7	10.7	7.3	20.0	10.3	7.8	19.3	10.0	8.3	21.7	11.8	10.0
27	18	19.9	16.5	6.0	15.8	12.5	5.9	15.4	12.1	6.3	15.0	11.7	6.7	17.9	14.6	7.8	17.2	13.9	8.3	19.4	16.1	9.9
	19	20.4	15.9	6.0	16.2	12.2	5.9	15.9	12.2	6.3	15.4	12.1	6.7	18.4	15.0	7.8	17.7	14.4	8.3	19.9	16.6	9.9
	20	21.0	14.9	5.9	20.5	14.9	6.4	20.1	14.9	6.8	19.5	14.7	7.3	18.9	14.5	7.8	18.2	14.2	8.3	20.5	16.7	9.9
	22	22.3	12.7	5.8	21.8	12.6	6.3	21.3	12.4	6.8	20.6	12.2	7.3	20.0	11.9	7.8	19.2	11.6	8.3	21.6	13.6	10.0
28	18	19.9	16.6	6.0	19.5	16.2	6.4	19.1	15.8	6.9	18.6	15.2	7.3	18.0	14.6	7.8	17.3	14.0	8.3	19.5	16.2	9.9
	20	21.0	16.1	5.9	20.6	16.1	6.4	20.1	16.1	6.8	19.5	15.9	7.3	18.9	15.6	7.8	18.2	14.9	8.3	20.5	17.2	9.9
	22	22.2	14.0	5.8	21.7	14.0	6.3	21.2	13.9	6.8	20.6	13.7	7.3	19.9	13.4	7.8	19.2	13.0	8.3	21.5	15.4	10.0
	24	23.6	11.5	5.7	23.1	11.3	6.2	22.5	11.1	6.7	21.8	10.8	7.2	24.7	12.8	8.7	20.3	10.1	8.3	22.7	11.9	10.0
30	19	20.7	17.4	6.0	20.2	16.9	6.4	19.8	16.4	6.8	19.2	15.9	7.3	18.6	15.3	7.8	17.9	14.6	8.3	20.2	16.9	9.9
	21	21.7	17.3	5.9	21.2	17.4	6.3	20.7	17.4	6.8	20.1	16.8	7.3	19.5	16.2	7.8	18.7	15.4	8.3	21.1	17.8	10.0
	23	26.8	18.6	6.4	22.3	15.4	6.3	21.8	15.3	6.8	21.2	15.1	7.3	20.4	14.9	7.8	19.7	14.5	8.3	22.1	17.0	10.0
	25	28.2	15.8	6.3	23.6	12.9	6.2	26.9	15.5	7.4	26.1	15.2	8.0	25.2	14.8	8.7	20.7	11.8	8.3	23.2	13.8	10.0
32	21	25.7	22.4	6.4	21.5	18.2	6.3	20.9	17.6	6.8	20.3	17.0	7.3	19.7	16.4	7.8	18.9	15.6	8.3	21.3	18.0	10.0
	23	26.9	21.4	6.4	22.5	17.8	6.3	21.9	17.8	6.8	21.3	17.6	7.3	20.6	17.2	7.8	19.8	16.5	8.3	22.2	18.9	10.0
	25	28.2	19.0	6.3	27.6	18.9	6.8	26.9	18.8	7.4	26.1	18.6	8.0	25.2	18.2	8.7	20.7	14.7	8.3	23.2	17.3	10.0
	26	29.0	17.6	6.2	28.3	17.5	6.8	27.6	17.3	7.4	26.8	17.1	8.0	25.9	16.7	8.7	21.2	13.4	8.3	23.8	15.7	10.1

Indoor Air Flow Correction Factors @ nominal conditions

Cooling

Indoor Air Flow (%)

	-20	-10	Rated	+10
Total Capacity	0.950	0.975	1.000	1.025
Sensible Capacity	0.890	0.950	1.000	1.050

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)

88.2 = Nominal Capacity (kW)
 Nominal Air Flow: **4 800 l/s**

OPA 970 Econex at Maximum Capacity (4 800 l/s)

Air on		Outdoor coil entering air temperature °C DB																											
D.B. °C	- 10			- 5			0			5			7			10			15			20			25				
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N
10	61.9	54.2	25.1	72.2	63.3	26.8	82.6	72.5	28.6	92.9	90.9	29.2	97.0	97.0	29.8	103.2	103.2	30.9	113.5	113.5	32.7	123.9	123.9	34.6	123.2	123.2	31.6		
15	62.1	54.4	25.5	72.4	63.4	27.3	82.7	72.6	29.2	93.0	91.0	29.8	97.2	97.2	30.4	103.4	103.4	31.5	113.7	113.7	33.3	124.0	124.0	35.3	123.3	123.3	32.1		
20	61.0	53.5	26.0	71.3	62.6	27.8	81.7	71.8	29.7	92.0	90.2	30.3	96.1	96.1	31.0	102.3	102.3	32.1	112.6	112.6	34.0	112.9	112.9	30.7	122.3	122.3	32.6		
25	58.7	51.7	26.3	69.0	60.8	28.2	79.4	70.0	30.1	89.7	88.4	30.8	93.8	93.8	31.5	100.0	100.0	32.6	110.4	110.4	34.5	110.8	110.8	31.0	120.2	120.2	32.9		

OPA 970 Econex at Nominal Capacity (4 800 l/s)

Air on		Outdoor coil entering air temperature °C DB																											
D.B. °C	- 10			- 5			0			5			7			10			15			20			25				
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N
10	56.8	49.8	21.7	66.3	58.1	23.2	75.8	66.5	24.7	85.2	83.4	25.2	89.0	89.0	25.8	94.7	94.7	26.6	104.2	104.2	28.2	113.7	113.7	29.8	123.2	123.2	31.6		
15	57.0	49.9	22.0	66.4	58.2	23.5	75.9	66.6	25.1	85.4	83.5	25.6	89.2	89.2	26.1	94.9	94.9	27.0	104.4	104.4	28.6	113.8	113.8	30.2	123.3	123.3	32.1		
20	56.0	49.1	22.2	65.5	57.4	23.8	74.9	65.9	25.4	84.4	82.7	25.9	88.2	88.2	26.5	93.9	93.9	27.4	103.4	103.4	29.0	112.9	112.9	30.7	122.3	122.3	32.6		
25	53.9	47.4	22.3	63.4	55.8	23.9	72.8	64.2	25.6	82.3	81.1	26.1	86.1	86.1	26.7	91.8	91.8	27.6	101.3	101.3	29.3	110.8	110.8	31.0	120.2	120.2	32.9		

OPA 970 Econex at Nominal less 25% (4 800 l/s)

Air on		Outdoor coil entering air temperature °C DB																											
D.B. °C	- 10			- 5			0			5			7			10			15			20			25				
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N
10	46.4	40.7	17.3	54.2	47.5	18.4	61.9	54.6	19.5	69.7	68.8	19.9	72.8	72.8	20.3	77.4	77.4	20.9	85.2	85.2	22.1	92.9	92.9	23.3	100.6	100.6	24.6		
15	46.5	40.8	17.4	54.3	47.6	18.5	62.0	54.7	19.7	69.8	68.9	20.0	72.9	72.9	20.4	77.5	77.5	21.1	85.3	85.3	22.2	93.0	93.0	23.5	100.8	100.8	24.8		
20	45.8	40.1	17.4	53.5	46.9	18.5	61.2	54.0	19.7	69.0	68.2	20.1	72.1	72.1	20.5	76.7	76.7	21.2	84.5	84.5	22.4	92.2	92.2	23.7	100.0	100.0	25.0		
25	44.0	38.8	17.3	51.8	45.6	18.5	59.5	52.6	19.7	67.3	66.7	20.1	70.4	70.4	20.5	75.0	75.0	21.2	82.8	82.8	22.4	90.5	90.5	23.7	98.3	98.3	25.1		

OPA 970 Econex at Nominal less 50% (4 800 l/s)

Air on		Outdoor coil entering air temperature °C DB																											
D.B. °C	- 10			- 5			0			5			7			10			15			20			25				
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N
10	30.5	26.7	12.0	35.6	31.2	12.7	40.7	35.7	13.4	45.8	44.8	13.6	47.8	47.8	13.9	50.8	50.8	14.3	55.9	55.9	15.0	61.0	61.0	15.7	66.1	66.1	16.6		
15	30.6	26.8	12.1	35.7	31.2	12.8	40.8	35.8	13.6	45.8	44.8	13.8	47.9	47.9	14.0	50.9	50.9	14.5	56.0	56.0	15.2	61.1	61.1	16.0	66.2	66.2	16.8		
20	30.1	26.3	12.2	35.1	30.8	12.9	40.2	35.4	13.7	45.3	44.4	13.9	47.4	47.4	14.2	50.4	50.4	14.6	55.5	55.5	15.4	60.6	60.6	16.1	65.7	65.7	17.0		
25	28.9	25.5	12.3	34.0	29.9	13.0	39.1	34.5	13.8	44.2	43.5	14.0	46.2	46.2	14.3	49.3	49.3	14.7	54.4	54.4	15.5	59.5	59.5	16.3	64.5	64.5	17.2		

OPA 970 Econex at Minimum Capacity (4 800 l/s)

Air on		Outdoor coil entering air temperature °C DB																											
D.B. °C	- 10			- 5			0			5			7			10			15			20			25				
	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N	PI	G	N
10	9.2	9.2	5.7	10.8	9.4	5.9	12.3	10.8	6.1	13.9	13.6	6.2	14.5	14.5	6.2	15.4	15.4	6.4	16.9	16.9	6.5	18.5	18.5	6.7	20.0	20.0	6.9		
15	9.3	9.3	5.8	10.8	9.5	6.0	12.3	10.8	6.2	13.9	13.6	6.2	14.5	14.5	6.3	15.4	15.4	6.4	17.0	17.0	6.6	18.5	18.5	6.8	20.1	20.1	6.9		
20	9.1	9.1	5.8	10.6	9.3	6.0	12.2	10.7	6.2	13.7	13.5	6.3	14.3	14.3	6.3	15.3	15.3	6.4	16.8	16.8	6.6	18.4	18.4	6.8	19.9	19.9	6.9		
25	8.8	8.8	5.8	10.3	9.1	6.0	11.8	10.4	6.2	13.4	13.2	6.2	14.0	14.0	6.3	14.9	14.9	6.4	16.5	16.5	6.5	18.0	18.0	6.7	19.6	19.6	6.9		

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