





Ducted Packaged Units

Part Load Data

OPA 680 Econex R32



 Cooling Capacity
13 kW – 72 kW

 Heating Capacity
11 kW – 74 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: **3 500 l/s**

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

OPA 680 Econex @Maximum capacity (3 500 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	68.1	47.5	15.6	66.4	47.5	16.6	64.5	47.3	17.7	62.5	47.0	18.8	60.3	46.4	20.0	49.4	40.6	21.7	46.4	38.9	23.8
	15	70.8	42.9	16.2	68.9	42.7	17.3	66.9	42.4	18.4	64.8	42.0	19.5	62.6	41.4	20.7	51.1	36.3	21.9	48.1	34.7	24.1
	16	73.5	37.7	16.8	71.6	37.4	17.9	69.5	37.0	19.0	67.3	36.4	20.2	64.9	35.7	21.4	53.0	31.5	22.2	49.8	30.0	24.3
	17	76.4	31.8	17.5	74.4	31.3	18.5	72.3	30.8	19.7	70.0	30.1	20.9	67.5	29.3	22.1	55.0	26.1	22.4	51.7	24.7	24.6
22	16	72.5	47.7	16.6	70.6	47.7	17.7	68.6	47.5	18.8	66.4	47.1	19.9	64.1	46.5	21.2	52.3	40.7	22.1	49.2	39.0	24.2
	17	75.1	43.0	17.2	73.1	42.8	18.2	71.0	42.5	19.4	68.7	42.0	20.5	66.3	41.4	21.8	54.1	36.4	22.3	50.8	34.7	24.5
	18	77.8	37.7	17.7	75.7	37.3	18.8	73.5	36.9	20.0	71.2	36.3	21.2	68.6	35.6	22.4	55.9	31.5	22.5	52.6	29.9	24.8
	19	80.6	31.7	18.3	78.5	31.1	19.4	76.2	30.5	20.6	73.8	29.8	21.8	69.6	28.8	22.0	57.9	26.0	22.7	54.4	24.5	25.0
24	16	72.3	56.2	16.6	70.4	56.4	17.6	68.4	56.4	18.7	66.2	56.1	19.9	63.9	55.6	21.1	52.2	48.5	22.1	49.0	46.5	24.2
	18	76.9	48.0	17.6	74.9	47.9	18.6	72.7	47.7	19.8	70.4	47.3	21.0	67.9	46.7	22.2	55.3	40.9	22.4	52.0	39.2	24.7
	20	82.2	37.6	18.6	80.0	37.2	19.7	77.6	36.7	20.9	75.1	36.1	22.1	70.9	35.0	22.3	59.0	31.4	22.8	55.4	29.8	25.2
	21	85.0	31.5	19.1	82.7	30.9	20.2	80.3	30.3	21.4	77.7	29.5	22.7	73.3	28.5	22.9	61.0	25.9	23.1	57.2	24.4	25.4
26	17	74.7	60.4	17.1	72.7	60.7	18.2	70.6	60.7	19.3	68.4	60.5	20.5	64.6	58.9	20.7	53.8	51.5	22.3	50.6	48.3	24.5
	19	79.0	52.7	18.0	77.0	52.8	19.1	74.7	52.6	20.2	72.3	52.2	21.4	68.3	51.0	21.7	56.8	45.2	22.6	53.4	43.3	24.9
	20	81.4	48.2	18.4	79.3	48.1	19.6	76.9	47.8	20.7	74.5	47.4	22.0	70.3	46.2	22.2	58.5	41.1	22.8	54.9	39.3	25.1
	22	86.6	37.5	19.4	84.3	37.1	20.5	81.8	36.5	21.8	79.2	35.9	23.0	74.7	34.8	23.3	62.1	31.3	23.2	58.3	29.7	25.6
27	18	77.0	60.8	17.6	75.0	61.0	18.7	72.8	61.1	19.8	70.5	60.8	21.0	66.5	59.5	21.2	55.4	52.6	22.4	52.1	49.7	24.7
	19	79.1	57.0	18.0	77.0	57.2	19.1	74.8	57.1	20.2	72.4	56.8	21.5	68.3	55.5	21.7	56.9	49.1	22.6	53.4	47.2	24.9
	20	81.3	52.9	18.4	79.2	52.9	19.5	76.9	52.8	20.7	74.4	52.4	21.9	70.2	51.1	22.2	58.4	45.4	22.8	54.9	43.5	25.1
	22	86.2	43.2	19.3	83.9	42.9	20.5	81.5	42.5	21.7	78.8	41.9	22.9	74.4	40.8	23.2	61.8	36.5	23.1	58.1	34.8	25.5
28	18	77.3	64.5	17.6	75.3	64.9	18.7	73.1	65.0	19.9	70.8	64.5	21.1	66.8	62.2	21.3	55.6	53.3	22.5	52.3	49.9	24.7
	20	81.5	57.2	18.4	79.3	57.4	19.6	77.0	57.3	20.7	74.5	57.0	22.0	70.3	55.6	22.2	58.5	49.3	22.8	54.9	47.3	25.1
	22	86.0	48.4	19.3	83.7	48.3	20.4	81.3	48.0	21.6	78.6	47.5	22.9	74.2	46.2	23.1	61.7	41.3	23.1	57.9	39.4	25.5
	24	91.2	37.4	20.2	88.7	36.9	21.4	86.1	36.4	22.6	83.3	35.7	23.9	78.6	34.6	24.1	65.3	31.3	23.5	61.3	29.7	26.0
30	19	80.1	68.6	18.2	78.0	69.0	19.3	75.8	68.9	20.5	73.3	67.9	21.7	69.2	65.6	21.9	57.6	55.3	22.7	54.1	51.8	25.0
	21	84.1	61.7	18.9	81.8	61.9	20.1	79.4	61.9	21.3	76.9	61.6	22.5	72.5	60.2	22.7	60.3	53.3	23.0	56.6	51.3	25.4
	23	88.4	53.3	19.7	86.1	53.3	20.9	83.5	53.1	22.1	80.8	52.6	23.4	76.2	51.3	23.6	63.4	45.8	23.3	59.5	43.8	25.7
	25	93.2	43.1	20.5	90.7	42.8	21.7	88.0	42.4	23.0	85.2	41.8	24.3	80.3	40.6	24.5	66.8	36.6	23.6	62.7	34.8	26.1
32	21	85.0	69.5	19.1	82.7	69.9	20.2	80.3	70.0	21.4	77.7	69.9	22.7	73.3	67.7	22.9	61.0	58.6	23.1	57.2	54.9	25.4
	23	88.9	62.3	19.8	86.5	62.5	21.0	84.0	62.4	22.2	81.2	62.1	23.5	76.6	60.7	23.7	63.7	53.9	23.3	59.8	51.8	25.8
	25	93.2	53.6	20.5	90.7	53.5	21.7	88.0	53.3	23.0	85.2	52.8	24.3	80.3	51.5	24.5	66.8	46.1	23.6	62.7	44.1	26.1
	26	95.6	48.5	20.9	93.0	48.4	22.1	90.2	48.0	23.4	87.3	47.5	24.7	82.3	46.2	25.0	68.5	41.6	23.8	64.3	39.7	26.3

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: **3 500 l/s**

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

OPA 680 Econex @Nominal Capacity (3 500 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	62.6	46.2	13.1	61.0	46.1	13.9	59.3	46.0	14.8	57.5	45.6	15.7	55.6	45.1	16.7	49.4	40.6	21.7	46.4	38.9	23.8
	15	65.0	42.0	13.7	63.3	41.9	14.5	61.6	41.6	15.4	59.7	41.1	16.3	57.6	40.5	17.3	51.1	36.3	21.9	48.1	34.7	24.1
	16	67.5	37.4	14.3	65.8	37.1	15.1	63.9	36.6	16.0	61.9	36.1	17.0	59.8	35.4	18.0	53.0	31.5	22.2	49.8	30.0	24.3
	17	70.1	32.1	14.8	68.3	31.6	15.7	66.4	31.0	16.6	64.3	30.3	17.6	62.1	29.5	18.6	55.0	26.1	22.4	51.7	24.7	24.6
22	16	66.6	46.6	14.0	64.9	46.5	14.9	63.1	46.3	15.8	61.1	45.9	16.7	59.0	45.3	17.7	52.3	40.7	22.1	49.2	39.0	24.2
	17	68.9	42.3	14.6	67.1	42.1	15.4	65.2	41.7	16.3	63.2	41.2	17.3	61.0	40.6	18.3	54.1	36.4	22.3	50.8	34.7	24.5
	18	71.4	37.5	15.1	69.5	37.2	16.0	67.6	36.7	16.9	65.4	36.1	17.9	63.2	35.3	18.9	55.9	31.5	22.5	52.6	29.9	24.8
	19	74.0	32.1	15.6	72.1	31.6	16.5	70.0	31.0	17.5	67.8	30.2	18.5	65.4	29.4	19.5	57.9	26.0	22.7	54.4	24.5	25.0
24	16	66.4	54.3	14.0	64.7	54.5	14.9	62.9	54.4	15.7	60.9	54.2	16.7	58.8	53.7	17.7	52.2	48.5	22.1	49.0	46.5	24.2
	18	70.6	47.0	14.9	68.8	46.9	15.8	66.8	46.6	16.7	64.7	46.1	17.7	62.5	45.5	18.7	55.3	40.9	22.4	52.0	39.2	24.7
	20	75.4	37.6	15.9	73.4	37.2	16.8	71.3	36.7	17.8	69.0	36.0	18.8	66.6	35.2	19.9	59.0	31.4	22.8	55.4	29.8	25.2
	21	77.9	32.1	16.4	75.9	31.5	17.3	73.7	30.9	18.3	71.4	30.1	19.3	68.9	29.2	20.4	61.0	25.9	23.1	57.2	24.4	25.4
26	17	68.6	58.3	14.5	66.8	58.5	15.4	64.9	58.5	16.3	62.9	58.2	17.2	60.7	57.5	18.2	53.8	51.5	22.3	50.6	48.3	24.5
	19	72.5	51.4	15.3	70.7	51.4	16.2	68.7	51.2	17.2	66.5	50.8	18.2	64.2	50.2	19.2	56.8	45.2	22.6	53.4	43.3	24.9
	20	74.7	47.3	15.8	72.8	47.2	16.7	70.7	46.9	17.6	68.4	46.4	18.6	66.0	45.7	19.7	58.5	41.1	22.8	54.9	39.3	25.1
	22	79.4	37.7	16.7	77.4	37.2	17.6	75.1	36.6	18.6	72.7	36.0	19.6	70.2	35.2	20.7	62.1	31.3	23.2	58.3	29.7	25.6
27	18	70.6	58.7	14.9	68.8	58.9	15.8	66.9	58.9	16.7	64.8	58.6	17.7	62.5	58.1	18.8	55.4	52.6	22.4	52.1	49.7	24.7
	19	72.6	55.3	15.3	70.7	55.4	16.2	68.7	55.3	17.2	66.6	55.0	18.2	64.2	54.4	19.2	56.9	49.1	22.6	53.4	47.2	24.9
	20	74.6	51.6	15.8	72.7	51.6	16.7	70.6	51.4	17.6	68.4	51.0	18.6	66.0	50.3	19.7	58.4	45.4	22.8	54.9	43.5	25.1
	22	79.1	42.9	16.6	77.0	42.6	17.5	74.8	42.1	18.5	72.4	41.5	19.6	69.8	40.8	20.7	61.8	36.5	23.1	58.1	34.8	25.5
28	18	71.0	62.1	15.0	69.1	62.4	15.9	67.2	62.5	16.8	65.1	61.9	17.8	62.8	60.7	18.8	55.6	53.3	22.5	52.3	49.9	24.7
	20	74.7	55.6	15.8	72.8	55.7	16.7	70.7	55.5	17.6	68.5	55.2	18.6	66.1	54.6	19.7	58.5	49.3	22.8	54.9	47.3	25.1
	22	78.9	47.7	16.6	76.8	47.5	17.5	74.6	47.1	18.5	72.2	46.6	19.5	69.7	45.9	20.6	61.7	41.3	23.1	57.9	39.4	25.5
	24	83.6	37.8	17.4	81.4	37.3	18.4	79.0	36.7	19.4	76.5	36.0	20.4	73.8	35.1	21.6	65.3	31.3	23.5	61.3	29.7	26.0
30	19	73.5	66.0	15.5	71.6	66.3	16.4	69.6	66.2	17.4	67.4	65.1	18.4	65.0	63.5	19.4	57.6	55.3	22.7	54.1	51.8	25.0
	21	77.1	59.8	16.2	75.1	59.9	17.2	73.0	59.8	18.1	70.6	59.5	19.2	68.1	59.0	20.2	60.3	53.3	23.0	56.6	51.3	25.4
	23	81.1	52.2	17.0	78.9	52.2	17.9	76.7	51.9	18.9	74.2	51.4	20.0	71.6	50.8	21.1	63.4	45.8	23.3	59.5	43.8	25.7
	25	85.5	43.1	17.7	83.2	42.7	18.7	80.8	42.2	19.7	78.2	41.6	20.8	75.4	40.8	21.9	66.8	36.6	23.6	62.7	34.8	26.1
32	21	77.9	67.0	16.4	75.9	67.3	17.3	73.7	67.4	18.3	71.4	67.2	19.3	68.9	66.0	20.4	61.0	58.6	23.1	57.2	54.9	25.4
	23	81.5	60.5	17.0	79.4	60.6	18.0	77.1	60.5	19.0	74.6	60.2	20.0	72.0	59.6	21.2	63.7	53.9	23.3	59.8	51.8	25.8
	25	85.5	52.7	17.7	83.2	52.5	18.7	80.8	52.2	19.7	78.2	51.7	20.8	75.4	51.0	21.9	66.8	46.1	23.6	62.7	44.1	26.1
	26	87.6	48.1	18.1	85.3	47.9	19.1	82.8	47.5	20.1	80.1	46.9	21.2	77.3	46.1	22.4	68.5	41.6	23.8	64.3	39.7	26.3

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: **3 500 l/s**

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

OPA 680 Econex @Maximum less 25% (3 500 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	51.9	42.3	10.1	50.6	42.2	10.6	49.2	42.0	11.2	47.7	41.6	11.8	46.1	41.0	12.5	49.4	40.6	21.7	46.4	38.9	23.8
	15	53.9	39.1	10.6	52.5	38.8	11.2	51.1	38.5	11.8	49.5	38.0	12.4	47.8	37.3	13.1	51.1	36.3	21.9	48.1	34.7	24.1
	16	55.9	35.4	11.1	54.5	35.0	11.7	53.0	34.5	12.4	51.4	33.9	13.0	49.6	33.2	13.7	53.0	31.5	22.2	49.8	30.0	24.3
	17	58.1	31.2	11.7	56.6	30.6	12.3	55.1	30.0	12.9	53.3	29.3	13.6	51.5	28.5	14.3	55.0	26.1	22.4	51.7	24.7	24.6
22	16	55.2	42.9	10.9	53.8	42.8	11.5	52.3	42.5	12.2	50.7	42.0	12.8	48.9	41.4	13.5	52.3	40.7	22.1	49.2	39.0	24.2
	17	57.1	39.5	11.4	55.7	39.3	12.0	54.1	38.9	12.7	52.4	38.3	13.3	50.6	37.6	14.0	54.1	36.4	22.3	50.8	34.7	24.5
	18	59.1	35.7	11.9	57.6	35.3	12.5	56.0	34.8	13.2	54.2	34.2	13.9	52.3	33.4	14.6	55.9	31.5	22.5	52.6	29.9	24.8
	19	61.3	31.4	12.4	59.7	30.9	13.1	58.0	30.2	13.7	56.2	29.5	14.4	54.2	28.6	15.1	57.9	26.0	22.7	54.4	24.5	25.0
24	16	55.0	49.3	10.9	53.6	49.0	11.5	52.1	48.3	12.1	50.5	47.4	12.8	48.8	46.4	13.4	52.2	48.5	22.1	49.0	46.5	24.2
	18	58.5	43.5	11.8	57.0	43.3	12.4	55.4	43.0	13.0	53.7	42.5	13.7	51.8	41.8	14.4	55.3	40.9	22.4	52.0	39.2	24.7
	20	62.4	36.1	12.7	60.8	35.6	13.3	59.1	35.0	14.0	57.2	34.4	14.7	55.2	33.5	15.4	59.0	31.4	22.8	55.4	29.8	25.2
	21	64.6	31.7	13.1	62.9	31.1	13.8	61.1	30.4	14.5	59.1	29.6	15.2	57.0	28.7	15.9	61.0	25.9	23.1	57.2	24.4	25.4
26	17	56.8	52.2	11.4	55.4	51.6	12.0	53.8	50.9	12.6	52.2	50.0	13.3	50.4	48.8	14.0	53.8	51.5	22.3	50.6	48.3	24.5
	19	60.1	47.3	12.1	58.6	47.2	12.8	56.9	46.9	13.4	55.1	46.4	14.1	53.2	45.8	14.8	56.8	45.2	22.6	53.4	43.3	24.9
	20	61.9	44.1	12.5	60.3	43.8	13.2	58.6	43.5	13.8	56.7	42.9	14.5	54.7	42.2	15.3	58.5	41.1	22.8	54.9	39.3	25.1
	22	65.8	36.4	13.4	64.1	35.9	14.0	62.2	35.3	14.7	60.2	34.6	15.5	58.1	33.7	16.2	62.1	31.3	23.2	58.3	29.7	25.6
27	18	58.5	53.1	11.8	57.1	52.6	12.4	55.4	51.8	13.0	53.7	50.9	13.7	51.8	49.8	14.4	55.4	52.6	22.4	52.1	49.7	24.7
	19	60.1	50.6	12.2	58.6	50.5	12.8	56.9	50.3	13.4	55.2	49.9	14.1	53.2	48.7	14.9	56.9	49.1	22.6	53.4	47.2	24.9
	20	61.8	47.6	12.5	60.2	47.5	13.2	58.5	47.2	13.8	56.7	46.7	14.5	54.7	46.0	15.3	58.4	45.4	22.8	54.9	43.5	25.1
	22	65.5	40.7	13.3	63.8	40.3	14.0	61.9	39.8	14.7	60.0	39.1	15.4	57.8	38.3	16.2	61.8	36.5	23.1	58.1	34.8	25.5
28	18	58.8	54.8	11.8	57.3	54.3	12.5	55.7	53.6	13.1	53.9	52.3	13.8	52.0	50.4	14.5	55.6	53.3	22.5	52.3	49.9	24.7
	20	61.9	50.9	12.6	60.3	50.9	13.2	58.6	50.6	13.9	56.7	50.2	14.6	54.7	49.5	15.3	58.5	49.3	22.8	54.9	47.3	25.1
	22	65.3	44.6	13.3	63.6	44.4	13.9	61.8	43.9	14.6	59.8	43.3	15.4	57.7	42.6	16.1	61.7	41.3	23.1	57.9	39.4	25.5
	24	69.2	36.8	14.1	67.4	36.2	14.7	65.4	35.6	15.5	63.3	34.8	16.2	61.0	33.9	17.0	65.3	31.3	23.5	61.3	29.7	26.0
30	19	60.9	57.6	12.3	59.4	57.0	13.0	57.7	56.1	13.6	55.8	54.2	14.3	53.9	52.3	15.1	57.6	55.3	22.7	54.1	51.8	25.0
	21	63.9	54.5	13.0	62.2	54.5	13.6	60.4	54.4	14.3	58.5	53.5	15.0	56.4	52.3	15.8	60.3	53.3	23.0	56.6	51.3	25.4
	23	67.1	48.6	13.6	65.4	48.4	14.3	63.5	48.0	15.0	61.4	47.5	15.8	59.2	46.7	16.5	63.4	45.8	23.3	59.5	43.8	25.7
	25	70.8	41.3	14.3	68.9	40.9	15.0	66.9	40.3	15.8	64.7	39.6	16.5	62.4	38.7	17.3	66.8	36.6	23.6	62.7	34.8	26.1
32	21	64.6	59.7	13.1	62.9	59.1	13.8	61.1	58.3	14.5	59.1	57.3	15.2	57.0	55.4	15.9	61.0	58.6	23.1	57.2	54.9	25.4
	23	67.5	55.4	13.7	65.7	55.4	14.4	63.8	55.2	15.1	61.8	54.7	15.8	59.6	54.0	16.6	63.7	53.9	23.3	59.8	51.8	25.8
	25	70.8	49.2	14.3	68.9	49.0	15.0	66.9	48.6	15.8	64.7	48.0	16.5	62.4	47.2	17.3	66.8	46.1	23.6	62.7	44.1	26.1
	26	72.6	45.6	14.7	70.6	45.3	15.4	68.6	44.8	16.1	66.3	44.1	16.9	63.9	43.2	17.7	68.5	41.6	23.8	64.3	39.7	26.3

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: **3 500 l/s**

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

OPA 680 Econex @Maximum less 50% (3 500 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	34.1	23.6	9.2	33.2	23.6	10.0	32.3	23.5	10.8	31.3	23.3	11.8	30.2	23.1	12.8	17.3	12.5	8.8	16.6	12.3	9.5
	15	35.3	21.3	9.2	34.5	21.2	10.0	33.5	21.1	10.9	32.5	20.9	11.9	31.3	20.6	12.9	17.9	11.0	8.8	17.1	10.7	9.6
	16	36.7	18.7	9.2	35.8	18.6	10.1	34.8	18.4	11.0	33.7	18.1	12.0	32.5	17.7	13.0	18.5	9.3	8.9	17.7	9.0	9.7
	17	38.1	15.8	9.3	37.2	15.6	10.2	36.1	15.3	11.1	35.0	14.9	12.0	33.8	14.6	13.1	19.2	7.4	8.9	18.4	7.1	9.7
22	16	36.2	23.8	9.2	35.3	23.7	10.1	34.3	23.6	11.0	33.2	23.4	11.9	32.1	23.2	13.0	18.3	12.6	8.9	17.5	12.3	9.6
	17	37.5	21.4	9.3	36.5	21.3	10.1	35.5	21.1	11.0	34.4	20.9	12.0	33.2	20.6	13.1	18.9	11.0	8.9	18.1	10.7	9.7
	18	38.8	18.8	9.3	37.8	18.6	10.2	36.7	18.4	11.1	35.6	18.1	12.1	34.4	17.7	13.2	19.5	9.3	8.9	18.7	9.0	9.7
	19	40.2	15.8	9.3	39.2	15.5	10.2	38.1	15.2	11.2	36.9	14.9	12.2	35.6	14.4	13.3	20.1	7.4	9.0	19.3	7.0	9.8
24	16	36.1	28.0	9.2	35.2	28.1	10.1	34.2	28.1	11.0	33.1	28.0	11.9	32.0	27.7	12.9	18.2	15.3	8.9	17.5	15.0	9.6
	18	38.4	23.9	9.3	37.4	23.9	10.2	36.3	23.8	11.1	35.2	23.5	12.1	34.0	23.2	13.1	19.3	12.6	8.9	18.5	12.3	9.7
	20	41.0	18.8	9.4	39.9	18.6	10.3	38.8	18.3	11.2	37.6	18.0	12.2	36.2	17.6	13.3	20.5	9.2	9.0	19.6	8.9	9.8
	21	42.4	15.7	9.4	41.3	15.4	10.3	40.1	15.1	11.3	38.8	14.7	12.3	37.5	14.3	13.4	21.1	7.3	9.1	20.2	6.9	9.9
26	17	37.3	30.1	9.3	36.3	30.2	10.1	35.3	30.3	11.0	34.2	30.2	12.0	33.0	29.9	13.0	18.8	16.5	8.9	18.0	15.7	9.7
	19	39.4	26.3	9.3	38.4	26.3	10.2	37.3	26.2	11.1	36.2	26.0	12.1	34.9	25.8	13.2	19.8	14.0	9.0	18.9	13.7	9.8
	20	40.6	24.1	9.4	39.6	24.0	10.2	38.4	23.9	11.2	37.2	23.6	12.2	35.9	23.3	13.3	20.3	12.6	9.0	19.5	12.3	9.8
	22	43.2	18.7	9.4	42.1	18.5	10.3	40.9	18.2	11.3	39.6	17.9	12.3	38.2	17.5	13.5	21.5	9.2	9.1	20.6	8.8	9.9
27	18	38.4	30.3	9.3	37.4	30.4	10.2	36.4	30.4	11.1	35.2	30.3	12.1	34.0	30.1	13.1	19.3	16.6	8.9	18.5	16.2	9.7
	19	39.5	28.4	9.3	38.5	28.5	10.2	37.4	28.5	11.1	36.2	28.3	12.1	34.9	28.0	13.2	19.8	15.4	9.0	19.0	15.1	9.8
	20	40.6	26.4	9.4	39.5	26.4	10.2	38.4	26.3	11.2	37.2	26.1	12.2	35.9	25.8	13.3	20.3	14.1	9.0	20.5	14.6	10.1
	22	43.0	21.6	9.4	41.9	21.4	10.3	40.7	21.2	11.3	39.4	20.9	12.3	38.0	20.6	13.5	21.4	10.9	9.1	21.6	11.3	10.2
28	18	38.6	32.2	9.3	37.6	32.3	10.2	36.5	32.4	11.1	35.4	32.3	12.1	34.2	32.1	13.1	19.4	17.1	8.9	19.6	17.2	10.1
	20	40.6	28.6	9.4	39.6	28.6	10.2	38.5	28.6	11.2	37.2	28.4	12.2	35.9	28.1	13.3	20.3	15.4	9.0	20.5	16.0	10.2
	22	42.9	24.2	9.4	41.8	24.1	10.3	40.6	23.9	11.3	39.3	23.7	12.3	37.9	23.4	13.4	21.4	12.6	9.1	21.6	13.0	10.2
	24	45.4	18.7	9.5	44.2	18.5	10.4	43.0	18.2	11.4	41.6	17.9	12.5	40.1	17.4	13.6	22.6	9.1	9.1	22.7	9.3	10.3
30	19	40.0	34.2	9.3	39.0	34.4	10.2	37.8	34.5	11.2	36.7	34.5	12.2	35.4	33.8	13.2	20.0	17.7	9.0	20.2	17.9	10.1
	21	41.9	30.8	9.4	40.8	30.9	10.3	39.7	30.9	11.2	38.4	30.8	12.3	37.1	30.5	13.4	20.9	16.8	9.0	21.1	17.4	10.2
	23	44.1	26.6	9.4	42.9	26.6	10.4	41.7	26.5	11.3	40.4	26.3	12.4	38.9	26.0	13.5	21.9	14.1	9.1	22.1	14.6	10.3
	25	46.5	21.6	9.5	45.2	21.4	10.4	43.9	21.2	11.4	42.5	20.9	12.5	41.0	20.5	13.7	23.1	10.9	9.2	23.2	11.2	10.4
32	21	42.4	34.7	9.4	41.3	34.9	10.3	40.1	35.0	11.3	38.8	34.9	12.3	37.5	34.7	13.4	21.1	18.8	9.1	21.3	19.0	10.2
	23	44.3	31.1	9.4	43.2	31.2	10.4	41.9	31.2	11.4	40.6	31.0	12.4	39.1	30.8	13.5	22.0	16.9	9.1	22.2	17.6	10.3
	25	46.5	26.8	9.5	45.2	26.8	10.4	43.9	26.6	11.4	42.5	26.4	12.5	41.0	26.1	13.7	23.1	14.2	9.2	23.2	14.6	10.4
	26	47.6	24.3	9.5	46.4	24.2	10.5	45.0	24.0	11.5	43.6	23.8	12.6	42.0	23.4	13.8	23.6	12.6	9.2	23.8	13.0	10.4

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: **3 500 l/s**

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

OPA 680 Econex @Minimum capacity (3 500 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	12.3	7.3	3.5	12.0	7.3	3.8	11.7	7.3	4.2	11.3	7.2	4.5	12.8	8.8	5.4	17.3	12.5	8.8	16.6	12.3	9.5
	15	12.8	6.5	3.5	12.5	6.5	3.8	12.1	6.4	4.2	11.8	6.3	4.5	13.3	7.8	5.4	17.9	11.0	8.8	17.1	10.7	9.6
	16	13.3	5.5	3.4	13.0	5.5	3.8	12.6	5.4	4.2	12.2	5.3	4.5	13.8	6.6	5.4	18.5	9.3	8.9	17.7	9.0	9.7
	17	13.9	4.5	3.4	13.5	4.4	3.8	13.1	4.3	4.1	12.7	4.2	4.5	14.3	5.2	5.4	19.2	7.4	8.9	18.4	7.1	9.7
22	16	13.1	7.4	3.5	12.8	7.4	3.8	12.4	7.3	4.2	12.0	7.3	4.5	13.6	8.8	5.4	18.3	12.6	8.9	17.5	12.3	9.6
	17	13.6	6.5	3.4	13.3	6.5	3.8	12.9	6.4	4.1	12.5	6.3	4.5	14.0	7.7	5.4	18.9	11.0	8.9	18.1	10.7	9.7
	18	14.1	5.6	3.4	13.7	5.5	3.8	13.3	5.4	4.1	12.9	5.3	4.5	14.5	6.5	5.4	19.5	9.3	8.9	18.7	9.0	9.7
	19	14.6	4.5	3.4	14.3	4.4	3.7	13.8	4.3	4.1	13.4	4.1	4.5	15.0	5.1	5.4	20.1	7.4	9.0	19.3	7.0	9.8
24	16	13.1	8.9	3.5	12.8	8.9	3.8	12.4	8.9	4.2	12.0	8.9	4.5	13.5	10.8	5.4	18.2	15.3	8.9	17.5	15.0	9.6
	18	13.9	7.4	3.4	13.6	7.4	3.8	13.2	7.4	4.1	12.8	7.3	4.5	14.4	8.9	5.4	19.3	12.6	8.9	18.5	12.3	9.7
	20	14.9	5.6	3.4	14.5	5.5	3.7	14.1	5.4	4.1	13.6	5.3	4.5	15.3	6.5	5.4	20.5	9.2	9.0	19.6	8.9	9.8
	21	15.5	4.5	3.3	15.1	4.4	3.7	14.6	4.2	4.1	14.1	4.1	4.5	15.8	5.1	5.5	21.1	7.3	9.1	20.2	6.9	9.9
26	17	15.8	11.8	3.7	13.2	9.7	3.8	12.8	9.7	4.1	12.4	9.7	4.5	16.3	14.1	6.0	18.8	16.5	8.9	18.0	15.7	9.7
	19	16.7	10.2	3.7	14.0	8.3	3.8	13.6	8.3	4.1	13.1	8.2	4.5	17.2	12.1	6.0	19.8	14.0	9.0	18.9	13.7	9.8
	20	17.2	9.2	3.7	14.4	7.5	3.7	14.0	7.4	4.1	13.5	7.3	4.5	17.7	10.9	6.0	20.3	12.6	9.0	19.5	12.3	9.8
	22	18.3	7.0	3.6	15.4	5.5	3.7	14.9	5.4	4.1	14.4	5.2	4.5	18.8	8.0	6.1	21.5	9.2	9.1	20.6	8.8	9.9
27	18	16.3	11.8	3.7	13.6	9.8	3.8	13.2	9.8	4.1	12.8	9.7	4.5	16.8	14.2	6.0	19.3	16.6	8.9	18.5	16.2	9.7
	19	16.7	11.1	3.7	14.0	9.1	3.8	13.6	9.1	4.1	13.1	9.0	4.5	17.2	13.2	6.0	19.8	15.4	9.0	19.0	15.1	9.8
	20	17.2	10.2	3.7	14.4	8.3	3.7	14.0	8.3	4.1	13.5	8.2	4.5	17.7	12.1	6.0	20.3	14.1	9.0	20.5	14.6	10.1
	22	18.2	8.2	3.6	15.3	6.5	3.7	14.8	6.5	4.1	14.3	6.3	4.5	18.7	9.5	6.1	21.4	10.9	9.1	21.6	11.3	10.2
28	18	16.3	12.6	3.7	13.7	10.5	3.8	13.3	10.5	4.1	12.8	10.5	4.5	16.9	15.2	6.0	19.4	17.1	8.9	19.6	17.2	10.1
	20	17.2	11.1	3.7	14.4	9.2	3.7	14.0	9.1	4.1	13.5	9.0	4.5	17.7	13.2	6.0	20.3	15.4	9.0	20.5	16.0	10.2
	22	18.2	9.3	3.6	15.3	7.5	3.7	14.8	7.5	4.1	14.3	7.3	4.5	18.7	10.9	6.1	21.4	12.6	9.1	21.6	13.0	10.2
	24	19.3	7.0	3.6	16.2	5.5	3.6	15.7	5.4	4.1	15.1	5.2	4.5	19.7	8.0	6.1	22.6	9.1	9.1	22.7	9.3	10.3
30	19	16.9	13.5	3.7	14.2	11.3	3.7	13.8	11.3	4.1	13.3	11.2	4.5	17.5	15.9	6.0	20.0	17.7	9.0	20.2	17.9	10.1
	21	17.8	12.1	3.6	14.9	10.0	3.7	14.4	10.0	4.1	13.9	9.9	4.5	18.3	14.4	6.1	20.9	16.8	9.0	21.1	17.4	10.2
	23	18.7	10.3	3.6	15.7	8.5	3.7	15.2	8.4	4.1	17.1	10.2	4.9	19.2	12.2	6.1	21.9	14.1	9.1	22.1	14.6	10.3
	25	19.8	8.2	3.5	16.6	6.6	3.6	16.1	6.5	4.1	18.0	7.9	4.9	20.2	9.5	6.1	23.1	10.9	9.2	23.2	11.2	10.4
32	21	20.9	16.5	4.1	15.1	11.5	3.7	14.6	11.5	4.1	16.4	13.8	4.9	18.5	16.5	6.1	21.1	18.8	9.1	21.3	19.0	10.2
	23	21.8	14.7	4.0	15.8	10.1	3.7	15.3	10.1	4.1	17.2	12.2	4.9	19.3	14.5	6.1	22.0	16.9	9.1	22.2	17.6	10.3
	25	22.9	12.7	4.0	16.6	8.5	3.6	16.1	8.5	4.1	18.0	10.2	4.9	20.2	12.2	6.1	23.1	14.2	9.2	23.2	14.6	10.4
	26	23.5	11.4	4.0	17.1	7.6	3.6	16.5	7.5	4.0	18.5	9.1	4.9	20.7	10.9	6.1	23.6	12.6	9.2	23.8	13.0	10.4

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

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: 3 500 l/s

OPA 680 Econex at Maximum Capacity (3 500 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
10	40.6	37.1	12.6		51.6	47.5	15.4	63.2	60.0	17.5	66.9	66.9	19.1	70.6	70.6	19.3	76.5	76.5	19.5	79.0	79.0	19.6	80.7	80.7	19.6	82.4	82.4	19.6
15	38.3	35.0	12.8		50.3	46.3	15.5	64.8	61.4	18.6	68.5	68.5	20.3	72.2	72.2	20.5	78.1	78.1	20.8	80.7	80.7	20.9	82.3	82.3	20.9	84.0	84.0	20.9
20	36.2	33.1	13.0		48.1	44.3	15.7	64.7	61.4	18.7	68.5	68.5	20.1	73.8	73.8	21.8	79.7	79.7	22.1	82.2	82.2	22.2	83.9	83.9	22.3	85.6	85.6	22.3
25	33.8	30.9	13.3		44.1	40.7	15.5	66.1	62.8	20.0	68.3	68.3	20.3	73.7	73.7	21.6	81.3	81.3	23.6	83.8	83.8	23.7	85.5	85.5	23.7	87.2	87.2	23.8

OPA 680 Econex at Nominal Capacity (3 500 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					
10	40.6	37.1	12.6		47.7	44.0	13.5		55.7	53.1	13.7		57.6	57.6	13.9		60.8	60.8	13.9		65.9	65.9	14.0		68.1	68.1	14.0		69.5	69.5	14.0		71.0	71.0	14.0	
15	38.3	35.0	12.8		47.8	44.1	14.3		57.0	54.3	14.6		58.9	58.9	14.8		62.2	62.2	14.9		67.3	67.3	15.0		69.5	69.5	15.0		70.9	70.9	15.0		72.4	72.4	15.0	
20	36.2	33.1	13.0		47.1	43.4	15.2		58.2	55.5	15.6		60.2	60.2	15.8		63.5	63.5	15.9		68.6	68.6	16.0		70.8	70.8	16.0		72.2	72.2	16.1		73.7	73.7	16.1	
25	33.8	30.9	13.3		44.1	40.7	15.5		59.5	56.7	16.6		61.5	61.5	16.8		64.7	64.7	17.0		69.9	69.9	17.1		72.1	72.1	17.2		73.5	73.5	17.2		75.0	75.0	17.2	

OPA 680 Econex at Nominal less 25% (3 500 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			
10	36.6	33.4	11.1	41.6	38.4	11.3	48.5	46.6	11.4	50.3	50.3	11.5	53.1	53.1	11.6	57.5	57.5	11.6	59.4	59.4	11.6	60.7	60.7	11.5	61.9	61.9	11.5
15	35.7	32.7	11.8	41.7	38.5	12.0	49.7	47.6	12.2	51.4	51.4	12.3	54.2	54.2	12.4	58.7	58.7	12.4	60.6	60.6	12.4	61.9	61.9	12.4	63.1	63.1	12.4
20	35.1	32.1	12.5	41.1	37.9	12.8	50.8	48.7	13.0	52.5	52.5	13.1	55.3	55.3	13.2	59.8	59.8	13.3	61.7	61.7	13.3	63.0	63.0	13.3	64.3	64.3	13.3
25	33.8	30.9	13.3	39.8	36.7	13.6	51.8	49.7	13.9	53.6	53.6	14.0	56.4	56.4	14.1	60.9	60.9	14.2	62.9	62.9	14.2	64.1	64.1	14.2	65.4	65.4	14.2

OPA 680 Econex at Nominal less 50% (3 500 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							
10	23.4	21.4	7.1	27.7	25.4	7.8	32.4	29.6	7.9	33.5	33.5	8.0	35.3	35.3	8.0	38.2	38.2	8.1	39.4	39.4	8.1	40.2	40.2	8.1	41.0	41.0	8.1				
15	22.5	20.6	7.5	27.8	25.4	8.2	33.2	30.3	8.4	34.3	34.3	8.5	36.1	36.1	8.5	39.0	39.0	8.6	40.2	40.2	8.6	41.0	41.0	8.6	41.8	41.8	8.6				
20	20.7	18.9	7.3	27.4	25.0	8.7	34.0	31.0	8.9	35.1	35.1	9.0	36.9	36.9	9.0	39.7	39.7	9.1	41.0	41.0	9.1	41.8	41.8	9.1	42.6	42.6	9.1				
25	19.0	17.4	7.3	26.5	24.2	9.2	34.7	31.7	9.4	35.8	35.8	9.5	37.7	37.7	9.6	40.5	40.5	9.6	41.7	41.7	9.7	42.5	42.5	9.7	43.4	43.4	9.7				

OPA 680 Econex at Minimum Capacity (3 500 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			
10	8.3	7.5	2.7	8.6	7.9	2.7	10.2	9.3	2.6	10.5	10.5	2.7	11.0	11.0	2.6	11.8	11.8	2.6	12.1	12.1	2.6	12.4	12.4	2.6	12.6	12.6	2.6
15	7.4	6.8	2.8	8.6	7.9	2.8	10.4	9.5	2.8	10.7	10.7	2.8	11.2	11.2	2.8	12.0	12.0	2.7	12.4	12.4	2.7	12.6	12.6	2.7	12.9	12.9	2.7
20	7.3	6.7	2.9	8.5	7.8	2.9	10.6	9.7	2.9	10.9	10.9	2.9	11.5	11.5	2.9	12.3	12.3	2.9	12.6	12.6	2.9	12.9	12.9	2.9	13.1	13.1	2.8
25	7.0	6.4	3.0	8.2	7.5	3.0	10.9	9.9	3.0	11.2	11.2	3.1	11.7	11.7	3.0	12.5	12.5	3.0	12.9	12.9	3.0	13.1	13.1	3.0	13.4	13.4	3.0

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