



Ducted Packaged Units

Part Load Data

OPA 680 Econex Pro R32




Cooling Capacity
14 kW – 79 kW




Heating Capacity
8 kW – 72 kW

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: **3 600 l/s**

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

OPA 680 Econex Pro @Maximum capacity (3 600 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	73.9	49.7	16.1	72.1	49.9	17.7	70.3	50.0	19.4	68.3	49.8	21.2	66.1	49.4	23.1	63.8	48.9	25.2	58.3	46.7	25.7
	15	76.7	44.7	16.1	74.9	44.7	17.8	72.9	44.6	19.5	70.8	44.3	21.3	68.6	43.8	23.3	66.1	43.2	25.5	60.4	41.3	26.0
	16	79.6	39.0	16.2	77.7	38.8	17.9	75.7	38.5	19.6	73.5	38.1	21.5	71.2	37.6	23.5	68.6	36.9	25.7	62.6	35.3	26.2
	17	82.8	32.5	16.3	80.8	32.2	18.0	78.7	31.7	19.8	76.4	31.1	21.7	73.9	30.5	23.7	71.3	29.7	25.9	65.0	28.5	26.5
22	16	78.5	49.9	16.2	76.7	50.1	17.8	74.7	50.0	19.6	72.5	49.8	21.5	70.2	49.4	23.5	67.7	48.8	25.6	61.8	46.7	26.1
	17	81.3	44.7	16.2	79.4	44.7	17.9	77.3	44.5	19.7	75.0	44.2	21.6	72.6	43.7	23.6	70.0	43.0	25.8	63.9	41.2	26.3
	18	84.2	38.9	16.3	82.2	38.7	18.0	80.0	38.3	19.8	77.7	37.9	21.8	75.2	37.3	23.8	72.5	36.6	26.1	66.1	35.0	26.6
	19	87.3	32.3	16.4	85.2	31.9	18.1	82.9	31.3	20.0	80.5	30.7	21.9	77.9	30.1	24.0	75.1	29.3	26.3	64.8	27.7	24.9
24	16	78.3	59.1	16.2	76.5	59.5	17.8	74.5	59.7	19.6	72.3	59.7	21.4	70.0	59.4	23.4	67.5	58.9	25.6	58.4	54.3	24.2
	18	83.3	50.1	16.3	81.3	50.2	18.0	79.2	50.1	19.8	76.8	49.9	21.7	74.4	49.4	23.8	71.7	48.8	26.0	62.0	45.3	24.6
	20	88.9	38.6	16.4	86.8	38.4	18.2	84.5	38.0	20.0	82.0	37.5	22.0	79.3	36.9	24.1	76.5	36.1	26.4	66.0	34.0	25.0
	21	92.0	31.9	16.4	89.7	31.5	18.2	87.3	30.9	20.1	84.8	30.3	22.1	82.0	29.6	24.3	79.0	28.8	26.6	68.2	27.4	25.2
26	17	80.9	63.5	16.2	79.0	64.1	17.9	76.9	64.4	19.7	74.7	64.4	21.6	72.3	64.2	23.6	69.7	63.6	25.8	60.3	58.6	24.4
	19	85.6	55.1	16.3	83.5	55.4	18.1	81.3	55.4	19.9	78.9	55.2	21.8	76.4	54.9	23.9	73.7	54.2	26.2	63.6	50.2	24.7
	20	88.1	50.2	16.4	86.0	50.2	18.1	83.7	50.1	20.0	81.3	49.9	22.0	78.6	49.4	24.1	75.8	48.7	26.3	65.4	45.3	24.9
	22	93.7	38.4	16.5	91.5	38.1	18.3	89.0	37.7	20.2	86.4	37.2	22.2	83.5	36.5	24.4	80.5	35.8	26.7	69.4	33.7	25.3
27	18	83.4	63.9	16.3	81.4	64.4	18.0	79.2	64.7	19.8	76.9	64.7	21.7	74.4	64.4	23.8	71.8	63.9	26.0	62.0	58.9	24.6
	19	85.7	59.8	16.3	83.6	60.1	18.1	81.4	60.3	19.9	79.0	60.2	21.8	76.5	59.9	23.9	73.7	59.3	26.2	63.7	54.7	24.7
	20	88.1	55.2	16.4	85.9	55.5	18.1	83.6	55.5	20.0	81.2	55.3	21.9	78.5	54.9	24.1	75.7	54.3	26.3	65.4	50.3	24.9
	22	93.3	44.6	16.5	91.0	44.4	18.3	88.6	44.2	20.2	86.0	43.8	22.2	83.2	43.2	24.4	80.2	42.5	26.7	69.1	39.7	25.3
28	18	83.7	67.9	16.3	81.7	68.6	18.0	79.6	68.9	19.8	77.2	69.0	21.7	74.8	68.8	23.8	72.1	68.3	26.0	62.3	60.6	24.6
	20	88.2	59.9	16.4	86.1	60.3	18.1	83.8	60.4	20.0	81.3	60.3	22.0	78.7	60.0	24.1	75.8	59.4	26.3	65.5	54.9	24.9
	22	93.1	50.2	16.5	90.8	50.3	18.3	88.4	50.1	20.2	85.8	49.8	22.2	83.0	49.3	24.3	80.0	48.7	26.7	69.0	45.3	25.3
	24	98.6	38.2	16.5	96.2	37.8	18.4	93.6	37.4	20.3	90.8	36.9	22.4	87.8	36.2	24.7	84.6	35.4	27.0	68.5	32.5	23.6
30	19	86.8	72.2	16.4	84.7	73.0	18.1	82.4	73.4	19.9	80.0	73.5	21.9	77.4	73.4	24.0	74.7	72.9	26.2	60.6	58.9	22.9
	21	91.0	64.7	16.4	88.8	65.1	18.2	86.4	65.3	20.1	83.9	65.3	22.1	81.1	65.0	24.2	78.2	64.5	26.5	63.4	56.8	23.1
	23	95.7	55.5	16.5	93.3	55.6	18.3	90.8	55.6	20.3	88.1	55.4	22.3	85.2	55.0	24.5	82.1	54.3	26.9	66.5	48.4	23.4
	25	100.9	44.3	16.5	98.4	44.2	18.4	95.7	43.9	20.4	92.8	43.4	22.5	89.8	42.8	24.8	86.5	42.1	27.2	70.0	38.2	23.7
32	21	92.0	73.1	16.4	89.7	73.8	18.2	87.3	74.2	20.1	84.8	74.3	22.1	82.0	74.1	24.3	79.0	73.6	26.6	64.0	62.4	23.2
	23	96.2	65.1	16.5	93.8	65.6	18.3	91.3	65.8	20.3	88.6	65.7	22.3	85.7	65.4	24.5	82.6	64.8	26.9	66.8	57.3	23.4
	25	100.9	55.6	16.5	98.4	55.7	18.4	95.7	55.7	20.4	92.8	55.5	22.5	89.8	55.0	24.8	86.5	54.3	27.2	70.0	48.5	23.7
	26	103.4	50.1	16.6	100.8	50.1	18.5	98.1	49.9	20.5	95.1	49.6	22.6	92.0	49.0	24.9	88.6	48.3	27.3	71.6	43.5	23.8

Indoor Air Flow Correction Factors at nominal conditions

Indoor Air Flow

	-20%	-10%	Rated	+10%
Total Cooling Capacity	0.950	0.975	1.000	1.025
Sensible Cooling Capacity	0.900	0.950	1.000	1.050
Heating Capacity	0.990	0.995	1.000	1.005

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: **3 600 l/s**

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

OPA 680 Econex Pro @Nominal capacity (3 600 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	62.4	45.2	12.5	61.0	45.3	13.8	59.5	45.2	15.2	57.8	45.0	16.7	56.0	44.7	18.3	54.1	44.1	20.1	52.0	43.3	22.0
	15	64.8	41.0	12.5	63.3	41.0	13.8	61.7	40.8	15.3	59.9	40.5	16.8	58.0	40.0	18.4	56.0	39.4	20.2	53.8	38.6	22.2
	16	67.2	36.3	12.5	65.7	36.1	13.9	64.0	35.8	15.3	62.2	35.3	16.9	60.2	34.8	18.6	58.1	34.1	20.4	55.8	33.3	22.4
	17	69.9	31.0	12.5	68.2	30.6	13.9	66.5	30.1	15.4	64.5	29.5	17.0	62.5	28.9	18.7	60.3	28.1	20.6	57.9	27.3	22.6
22	16	66.3	45.5	12.5	64.8	45.6	13.9	63.1	45.5	15.3	61.3	45.2	16.8	59.4	44.8	18.5	57.3	44.2	20.3	55.1	43.4	22.3
	17	68.6	41.2	12.5	67.0	41.1	13.9	65.3	40.9	15.4	63.4	40.5	16.9	61.4	40.0	18.6	59.3	39.3	20.5	56.9	38.5	22.5
	18	71.1	36.4	12.5	69.4	36.1	14.0	67.6	35.8	15.4	65.6	35.3	17.0	63.5	34.7	18.8	61.3	34.0	20.6	58.9	33.1	22.7
	19	73.7	31.0	12.6	71.9	30.5	14.0	70.0	30.0	15.5	68.0	29.4	17.1	65.8	28.7	18.9	63.4	27.9	20.8	60.9	27.0	22.9
24	16	66.1	53.2	12.5	64.6	53.5	13.9	63.0	53.6	15.3	61.2	53.5	16.8	59.2	53.2	18.5	57.2	52.7	20.3	54.9	51.9	22.3
	18	70.3	45.8	12.5	68.6	45.8	13.9	66.9	45.7	15.4	64.9	45.4	17.0	62.9	44.9	18.7	60.6	44.3	20.6	58.3	43.5	22.7
	20	75.0	36.4	12.6	73.2	36.1	14.0	71.3	35.7	15.6	69.2	35.2	17.2	67.0	34.5	19.0	64.6	33.8	20.9	62.0	32.9	23.0
	21	77.5	30.9	12.6	75.7	30.4	14.1	73.7	29.8	15.6	71.5	29.2	17.3	69.2	28.5	19.1	66.7	27.6	21.0	64.0	26.7	23.2
26	17	68.3	57.1	12.5	66.7	57.5	13.9	65.0	57.7	15.4	63.1	57.6	16.9	61.1	57.3	18.6	59.0	56.8	20.5	56.7	55.0	22.5
	19	72.2	50.2	12.5	70.5	50.3	14.0	68.7	50.2	15.5	66.7	50.0	17.1	64.5	49.6	18.8	62.2	49.0	20.7	59.8	48.1	22.8
	20	74.3	46.1	12.6	72.6	46.1	14.0	70.7	45.9	15.5	68.6	45.6	17.2	66.4	45.1	18.9	64.0	44.4	20.9	61.5	43.5	23.0
	22	79.0	36.4	12.6	77.1	36.0	14.1	75.1	35.6	15.6	72.9	35.0	17.3	70.5	34.4	19.2	67.9	33.6	21.1	65.2	32.7	23.3
27	18	70.4	57.5	12.5	68.7	57.8	13.9	66.9	58.0	15.4	65.0	57.9	17.0	62.9	57.6	18.7	60.7	57.1	20.6	58.3	56.2	22.7
	19	72.3	54.1	12.6	70.6	54.3	14.0	68.7	54.4	15.5	66.7	54.2	17.1	64.6	53.8	18.8	62.3	53.2	20.7	59.8	52.4	22.8
	20	74.3	50.4	12.6	72.5	50.5	14.0	70.6	50.4	15.5	68.5	50.2	17.2	66.3	49.7	18.9	64.0	49.1	20.8	61.4	48.2	23.0
	22	78.7	41.6	12.6	76.8	41.4	14.1	74.7	41.1	15.6	72.5	40.6	17.3	70.2	40.0	19.1	67.6	39.2	21.1	64.9	38.3	23.3
28	18	70.7	60.9	12.5	69.0	61.4	14.0	67.2	61.6	15.4	65.3	61.6	17.0	63.2	61.3	18.7	60.9	59.3	20.6	58.5	56.9	22.7
	20	74.4	54.3	12.6	72.6	54.5	14.0	70.7	54.6	15.5	68.6	54.4	17.2	66.4	54.0	18.9	64.0	53.4	20.9	61.5	52.5	23.0
	22	78.5	46.3	12.6	76.6	46.3	14.1	74.6	46.1	15.6	72.4	45.7	17.3	70.0	45.2	19.1	67.5	44.5	21.1	64.8	43.5	23.3
	24	83.1	36.4	12.6	81.1	36.0	14.1	78.9	35.6	15.7	76.6	35.0	17.5	74.0	34.3	19.3	71.3	33.4	21.4	68.5	32.5	23.6
30	19	73.2	64.7	12.6	71.5	65.2	14.0	69.6	65.5	15.5	67.6	65.5	17.1	65.4	63.8	18.9	63.1	61.4	20.8	60.6	58.9	22.9
	21	76.7	58.4	12.6	74.9	58.7	14.0	72.9	58.8	15.6	70.8	58.7	17.3	68.5	58.3	19.0	66.0	57.7	21.0	63.4	56.8	23.1
	23	80.6	50.9	12.6	78.7	50.9	14.1	76.6	50.8	15.7	74.3	50.5	17.4	71.9	50.0	19.2	69.3	49.3	21.2	66.5	48.4	23.4
	25	85.0	41.7	12.6	82.9	41.4	14.1	80.7	41.1	15.8	78.2	40.6	17.5	75.7	39.9	19.4	72.9	39.1	21.5	70.0	38.2	23.7
32	21	77.5	65.6	12.6	75.7	66.1	14.1	73.7	66.3	15.6	71.5	66.3	17.3	69.2	66.0	19.1	66.7	65.0	21.0	64.0	62.4	23.2
	23	81.1	59.0	12.6	79.1	59.3	14.1	77.0	59.4	15.7	74.7	59.2	17.4	72.3	58.8	19.2	69.6	58.2	21.2	66.8	57.3	23.4
	25	85.0	51.2	12.6	82.9	51.2	14.1	80.7	51.1	15.8	78.2	50.7	17.5	75.7	50.2	19.4	72.9	49.5	21.5	70.0	48.5	23.7
	26	87.1	46.7	12.6	84.9	46.5	14.1	82.6	46.3	15.8	80.2	45.8	17.6	77.5	45.2	19.5	74.7	44.5	21.6	71.6	43.5	23.8

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: **3 600 l/s**

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

OPA 680 Econex Pro @Maximum less 25% (3 600 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	55.5	41.6	10.6	54.2	41.7	11.7	52.9	41.6	13.0	51.4	41.4	14.3	49.8	41.0	15.7	48.1	40.5	17.3	46.3	39.8	19.0
	15	57.5	38.0	10.6	56.2	37.9	11.7	54.8	37.7	13.0	53.3	37.4	14.3	51.6	36.9	15.8	49.8	36.3	17.4	47.9	35.6	19.2
	16	59.7	33.9	10.6	58.3	33.6	11.8	56.9	33.3	13.1	55.2	32.9	14.4	53.5	32.3	15.9	51.6	31.7	17.6	49.6	30.9	19.4
	17	62.0	29.2	10.6	60.6	28.8	11.8	59.0	28.3	13.1	57.3	27.8	14.5	55.5	27.1	16.0	53.5	26.4	17.7	51.4	25.6	19.5
22	16	58.9	42.0	10.6	57.6	42.0	11.8	56.1	41.9	13.0	54.5	41.6	14.4	52.8	41.2	15.9	51.0	40.6	17.5	49.0	39.9	19.3
	17	60.9	38.2	10.6	59.5	38.1	11.8	58.0	37.9	13.1	56.4	37.5	14.5	54.6	37.0	16.0	52.6	36.4	17.6	50.6	35.5	19.5
	18	63.1	34.0	10.6	61.6	33.7	11.8	60.0	33.4	13.1	58.3	32.9	14.5	56.4	32.3	16.1	54.4	31.6	17.8	52.3	30.8	19.6
	19	65.4	29.3	10.5	63.8	28.8	11.8	62.2	28.3	13.2	60.4	27.7	14.6	58.4	27.0	16.2	56.3	26.3	17.9	54.1	25.4	19.8
24	16	58.7	48.9	10.6	57.4	49.1	11.8	55.9	49.2	13.0	54.4	49.0	14.4	52.7	48.7	15.9	50.8	48.2	17.5	48.8	47.2	19.3
	18	62.4	42.4	10.6	61.0	42.3	11.8	59.4	42.2	13.1	57.7	41.9	14.5	55.8	41.4	16.0	53.9	40.8	17.7	51.7	40.0	19.6
	20	66.6	34.1	10.5	65.0	33.8	11.8	63.3	33.4	13.2	61.4	32.9	14.6	59.4	32.2	16.2	57.3	31.5	17.9	55.0	30.6	19.9
	21	68.8	29.3	10.5	67.2	28.8	11.8	65.4	28.2	13.2	63.5	27.6	14.7	61.4	26.9	16.3	59.2	26.1	18.1	56.8	25.2	20.0
26	17	60.7	52.3	10.6	59.3	52.6	11.8	57.7	52.8	13.1	56.1	52.7	14.5	54.3	52.4	16.0	52.4	50.7	17.6	50.3	48.7	19.4
	19	64.1	46.3	10.5	62.6	46.3	11.8	61.0	46.3	13.1	59.2	46.0	14.6	57.3	45.6	16.1	55.3	44.9	17.8	53.1	44.1	19.7
	20	66.0	42.7	10.5	64.4	42.6	11.8	62.7	42.4	13.2	60.9	42.1	14.6	58.9	41.6	16.2	56.8	40.9	17.9	54.6	40.1	19.8
	22	70.1	34.2	10.5	68.4	33.8	11.8	66.6	33.4	13.2	64.6	32.8	14.7	62.5	32.2	16.4	60.2	31.4	18.1	57.8	30.5	20.1
27	18	62.5	52.7	10.6	61.0	53.0	11.8	59.4	53.1	13.1	57.7	53.0	14.5	55.9	52.7	16.0	53.9	52.1	17.7	51.8	50.1	19.6
	19	64.1	49.7	10.5	62.7	49.9	11.8	61.0	49.9	13.1	59.3	49.7	14.6	57.4	49.3	16.1	55.3	48.7	17.8	53.1	47.9	19.7
	20	65.9	46.5	10.5	64.4	46.5	11.8	62.7	46.4	13.2	60.8	46.2	14.6	58.9	45.7	16.2	56.8	45.1	17.9	54.5	44.2	19.8
	22	69.8	38.8	10.5	68.1	38.6	11.8	66.3	38.2	13.2	64.3	37.8	14.7	62.2	37.2	16.3	60.0	36.4	18.1	57.6	35.5	20.1
28	18	62.7	55.8	10.6	61.3	56.1	11.8	59.7	56.3	13.1	58.0	56.3	14.5	56.1	54.5	16.1	54.1	52.5	17.7	52.0	50.3	19.6
	20	66.0	50.0	10.5	64.4	50.2	11.8	62.8	50.1	13.2	60.9	49.9	14.6	59.0	49.5	16.2	56.8	48.9	17.9	54.6	48.1	19.8
	22	69.6	43.0	10.5	68.0	42.9	11.8	66.2	42.7	13.2	64.2	42.3	14.7	62.1	41.8	16.3	59.8	41.0	18.1	57.4	40.1	20.1
	24	73.7	34.3	10.5	71.9	33.9	11.8	70.0	33.5	13.3	67.9	32.9	14.8	65.7	32.2	16.5	63.2	31.4	18.3	60.7	30.4	20.3
30	19	65.0	59.1	10.5	63.4	59.6	11.8	61.8	59.8	13.2	60.0	58.3	14.6	58.1	56.4	16.2	56.0	54.3	17.9	53.8	52.1	19.7
	21	68.1	53.7	10.5	66.5	53.9	11.8	64.7	54.0	13.2	62.8	53.8	14.7	60.8	53.4	16.3	58.6	52.8	18.0	56.2	51.9	20.0
	23	71.5	47.1	10.5	69.8	47.1	11.8	67.9	46.9	13.3	65.9	46.6	14.8	63.7	46.1	16.4	61.4	45.4	18.2	58.9	44.5	20.2
	25	75.3	39.0	10.4	73.5	38.8	11.8	71.5	38.4	13.3	69.4	37.9	14.9	67.1	37.2	16.5	64.6	36.4	18.4	62.0	35.5	20.4
32	21	68.8	60.0	10.5	67.2	60.4	11.8	65.4	60.6	13.2	63.5	60.6	14.7	61.4	59.7	16.3	59.2	57.5	18.1	56.8	55.1	20.0
	23	71.9	54.3	10.5	70.2	54.5	11.8	68.3	54.5	13.3	66.3	54.3	14.8	64.1	53.9	16.4	61.7	53.2	18.2	59.2	52.3	20.2
	25	75.3	47.5	10.4	73.5	47.4	11.8	71.5	47.2	13.3	69.4	46.9	14.9	67.1	46.3	16.5	64.6	45.6	18.4	62.0	44.6	20.4
	26	77.2	43.5	10.4	75.3	43.3	11.8	73.3	43.0	13.3	71.1	42.6	14.9	68.7	42.0	16.6	66.1	41.2	18.5	63.4	40.2	20.5

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: **3 600 l/s**

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

OPA 680 Econex Pro @Maximum less 50% (3 600 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	37.1	29.6	6.6	36.2	29.6	7.4	35.3	29.5	8.2	34.3	29.2	9.1	33.2	28.9	10.1	32.0	28.4	11.1	37.9	33.7	15.3
	15	38.4	27.2	6.6	37.6	27.1	7.4	36.6	26.9	8.2	35.5	26.6	9.1	34.4	26.2	10.1	33.1	25.6	11.2	39.2	30.2	15.4
	16	39.9	24.6	6.6	39.0	24.4	7.4	38.0	24.1	8.2	36.8	23.7	9.1	35.6	23.2	10.1	34.3	22.6	11.3	40.6	26.4	15.5
	17	41.4	21.6	6.5	40.5	21.2	7.3	39.4	20.8	8.2	38.2	20.4	9.2	36.9	19.8	10.2	35.5	19.2	11.3	42.1	22.1	15.6
22	16	39.4	30.0	6.6	38.5	29.9	7.4	37.5	29.8	8.2	36.4	29.5	9.1	35.1	29.1	10.1	33.8	28.5	11.3	40.1	33.8	15.5
	17	40.7	27.5	6.5	39.8	27.4	7.4	38.7	27.2	8.2	37.6	26.8	9.1	36.3	26.3	10.2	34.9	25.8	11.3	41.4	30.3	15.6
	18	42.2	24.8	6.5	41.2	24.6	7.3	40.1	24.3	8.2	38.9	23.8	9.2	37.5	23.3	10.2	39.9	24.8	12.6	42.7	26.4	15.7
	19	43.7	21.8	6.4	42.7	21.4	7.3	41.5	21.0	8.2	40.2	20.5	9.2	38.8	19.9	10.2	41.3	20.9	12.7	44.2	22.1	15.8
24	16	39.2	34.6	6.6	38.3	34.7	7.4	37.3	34.6	8.2	36.2	34.4	9.1	35.0	33.4	10.1	37.3	35.6	12.4	40.0	38.3	15.5
	18	41.7	30.4	6.5	40.7	30.3	7.3	39.6	30.1	8.2	38.4	29.8	9.2	37.1	29.3	10.2	39.5	31.5	12.6	42.3	33.9	15.7
	20	44.5	25.1	6.4	43.4	24.8	7.3	42.3	24.4	8.2	41.0	23.9	9.2	39.5	23.4	10.3	42.0	24.8	12.7	44.9	26.3	15.9
	21	46.1	21.9	6.4	44.9	21.5	7.3	43.7	21.1	8.2	42.3	20.5	9.2	40.8	19.9	10.3	43.3	20.9	12.8	46.4	22.0	16.0
26	17	40.5	37.0	6.5	39.6	37.1	7.4	38.5	36.9	8.2	37.4	35.7	9.1	36.1	34.5	10.2	38.4	36.8	12.5	41.2	39.5	15.6
	19	42.9	33.1	6.5	41.8	33.0	7.3	40.7	32.9	8.2	39.5	32.6	9.2	38.1	32.1	10.2	40.5	34.6	12.6	43.4	37.3	15.7
	20	44.1	30.8	6.4	43.1	30.7	7.3	41.9	30.4	8.2	40.6	30.1	9.2	39.2	29.6	10.3	41.6	31.7	12.7	44.6	34.0	15.8
	22	46.9	25.3	6.3	45.8	25.0	7.2	44.5	24.6	8.2	43.1	24.1	9.2	41.6	23.5	10.3	44.1	24.8	12.8	47.2	26.3	16.0
27	18	41.7	37.3	6.5	40.8	37.4	7.3	39.7	37.4	8.2	38.5	36.8	9.2	37.2	35.5	10.2	39.5	37.9	12.6	42.3	40.7	15.7
	19	42.9	35.4	6.5	41.9	35.4	7.3	40.7	35.3	8.2	39.5	35.1	9.2	38.1	34.7	10.2	40.5	37.4	12.6	43.4	40.4	15.7
	20	48.6	36.3	7.1	43.0	33.3	7.3	41.9	33.1	8.2	40.6	32.8	9.2	39.2	32.3	10.3	41.6	34.7	12.7	44.5	37.4	15.8
	22	51.4	30.8	7.1	45.6	28.1	7.2	44.3	27.8	8.2	42.9	27.3	9.2	41.4	26.8	10.3	43.9	28.5	12.8	47.0	30.4	16.0
28	18	46.2	43.0	7.2	40.9	39.3	7.3	39.8	38.2	8.2	38.6	37.0	9.2	37.3	35.7	10.2	39.7	38.0	12.6	42.5	40.8	15.7
	20	48.6	38.9	7.1	43.1	35.7	7.3	41.9	35.6	8.2	40.6	35.3	9.2	39.2	34.8	10.3	41.7	37.5	12.7	44.6	40.6	15.8
	22	51.3	33.9	7.1	45.5	31.0	7.2	44.2	30.7	8.2	42.8	30.3	9.2	41.3	29.8	10.3	43.8	31.9	12.8	46.9	34.2	16.0
	24	54.4	27.7	7.0	48.2	25.2	7.2	46.8	24.8	8.2	45.3	24.2	9.2	43.7	23.6	10.4	46.3	24.9	12.9	49.5	26.3	16.2
30	19	47.9	45.6	7.2	42.4	40.8	7.3	41.3	39.6	8.2	40.0	38.3	9.2	38.6	37.0	10.2	41.0	39.4	12.6	43.9	42.3	15.8
	21	50.2	41.7	7.1	44.5	38.3	7.3	43.2	38.2	8.2	41.9	37.9	9.2	40.4	37.5	10.3	42.9	40.4	12.7	45.9	43.7	15.9
	23	52.7	37.0	7.0	46.7	33.9	7.2	45.4	33.7	8.2	44.0	33.3	9.2	42.4	32.7	10.3	45.0	35.1	12.8	53.0	40.9	17.9
	25	55.6	31.2	6.9	49.3	28.5	7.1	47.8	28.1	8.1	46.3	27.6	9.2	44.6	27.0	10.4	47.3	28.6	12.9	55.7	32.9	18.1
32	21	50.7	46.4	7.1	44.9	42.7	7.3	43.7	42.0	8.2	42.3	40.7	9.2	40.8	39.2	10.3	43.3	41.7	12.8	51.1	49.4	17.7
	23	59.0	46.4	8.0	47.0	38.9	7.2	45.7	38.8	8.2	44.2	38.5	9.2	42.6	38.0	10.3	45.2	40.9	12.8	53.3	48.0	17.9
	25	61.9	40.9	7.9	60.3	40.8	9.1	58.7	40.6	10.3	56.9	40.2	11.6	54.9	39.6	13.0	47.3	35.3	12.9	55.7	41.1	18.1
	26	63.4	37.7	7.9	61.8	37.5	9.1	60.1	37.2	10.3	58.2	36.7	11.6	56.2	36.1	13.0	48.4	32.2	13.0	57.0	37.2	18.2

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: **3 600 l/s**

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

OPA 680 Econex Pro @Minimum capacity (3 600 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	13.6	7.9	3.4	13.3	7.9	3.7	12.9	7.9	4.0	12.9	6.8	4.3	15.0	10.8	5.9	14.4	10.6	6.5	15.0	11.5	7.6
	15	14.1	6.9	3.4	13.7	6.9	3.7	13.4	6.9	4.0	13.4	5.7	4.3	15.5	9.5	5.9	14.9	9.3	6.5	15.5	10.1	7.6
	16	14.6	5.9	3.4	14.3	5.8	3.7	13.9	5.8	4.0	13.9	4.4	4.3	16.1	8.1	6.0	15.5	7.9	6.6	16.1	8.5	7.7
	17	15.2	4.7	3.4	14.8	4.6	3.7	14.4	4.5	4.0	13.2	7.8	4.3	16.7	6.6	6.0	16.0	6.3	6.6	16.6	6.8	7.7
22	16	14.4	7.9	3.4	14.1	7.9	3.7	13.7	7.9	4.0	13.7	6.8	4.3	15.9	10.8	6.0	15.3	10.6	6.5	15.9	11.5	7.6
	17	14.9	6.9	3.4	14.6	6.9	3.7	14.1	6.9	4.0	14.2	5.6	4.3	16.4	9.5	6.0	18.0	11.0	7.3	16.4	10.1	7.7
	18	15.5	5.9	3.4	15.1	5.8	3.7	14.6	5.7	4.0	14.7	4.3	4.3	17.0	8.1	6.0	18.6	9.4	7.3	16.9	8.5	7.7
	19	16.1	4.7	3.3	15.6	4.6	3.7	15.2	4.5	4.0	13.2	9.6	4.3	17.6	6.5	6.0	19.2	7.5	7.4	17.5	6.7	7.8
24	16	14.4	9.6	3.4	14.0	9.6	3.7	13.6	9.7	4.0	14.0	7.8	4.3	15.8	13.1	6.0	17.4	15.1	7.2	15.8	13.9	7.6
	18	15.3	7.9	3.4	14.9	7.9	3.7	14.5	7.9	4.0	14.9	5.5	4.3	16.8	10.8	6.0	18.4	12.5	7.3	16.7	11.5	7.7
	20	16.4	5.8	3.3	15.9	5.8	3.6	15.5	5.7	4.0	15.4	4.2	4.3	17.9	8.0	6.0	19.5	9.3	7.4	17.8	8.4	7.8
	21	16.9	4.6	3.3	16.5	4.5	3.6	16.0	4.4	4.0	13.6	10.5	4.3	18.5	6.4	6.1	20.2	7.5	7.4	18.3	6.6	7.9
26	17	14.9	10.4	3.4	14.5	10.5	3.7	14.1	10.5	4.0	14.4	8.8	4.3	16.3	14.1	6.0	17.9	16.3	7.3	16.3	14.7	7.7
	19	15.7	8.9	3.4	15.3	8.9	3.7	14.9	8.9	4.0	14.8	7.8	4.3	17.2	12.1	6.0	18.9	13.9	7.3	17.2	12.8	7.8
	20	20.0	11.2	4.1	15.8	7.9	3.6	15.3	7.9	4.0	15.7	5.5	4.3	17.7	10.9	6.0	19.4	12.5	7.4	17.6	11.5	7.8
	22	21.3	8.6	4.0	16.8	5.7	3.6	16.3	5.6	4.0	14.0	10.5	4.3	18.8	8.0	6.1	20.5	9.3	7.4	18.7	8.3	7.9
27	18	18.9	14.3	4.1	14.9	10.5	3.7	14.5	10.6	4.0	14.4	9.7	4.3	16.8	14.2	6.0	18.4	16.4	7.3	16.7	15.1	7.7
	19	19.4	13.4	4.1	15.3	9.8	3.7	14.9	9.7	4.0	14.8	8.8	4.3	17.2	13.2	6.0	18.9	15.2	7.3	17.2	14.0	7.8
	20	20.0	12.4	4.1	15.8	8.9	3.6	15.3	8.9	4.0	15.7	6.7	4.3	17.7	12.1	6.0	19.4	14.0	7.4	17.6	12.8	7.8
	22	21.2	10.0	4.0	16.7	6.9	3.6	16.2	6.8	4.0	14.1	11.3	4.3	18.7	9.5	6.1	20.5	11.0	7.4	18.6	10.0	7.9
28	18	19.0	15.2	4.1	15.0	11.3	3.7	14.6	11.3	4.0	14.8	9.7	4.3	16.9	15.2	6.0	18.5	16.9	7.3	16.8	15.2	7.7
	20	20.0	13.5	4.1	15.8	9.8	3.6	15.3	9.8	4.0	15.6	7.8	4.3	17.7	13.2	6.0	19.4	15.3	7.4	17.6	14.0	7.8
	22	21.1	11.3	4.0	16.7	8.0	3.6	16.2	7.9	4.0	16.5	5.4	4.3	18.7	10.9	6.1	20.4	12.6	7.4	18.5	11.5	7.9
	24	22.4	8.7	4.0	17.7	5.7	3.6	17.1	5.6	3.9	14.6	12.1	4.3	19.7	8.0	6.1	21.6	9.2	7.5	19.6	8.3	8.0
30	19	19.7	16.2	4.1	15.5	12.1	3.7	15.1	12.1	4.0	15.3	10.6	4.3	17.5	15.9	6.0	19.1	17.5	7.3	17.4	15.8	7.8
	21	20.6	14.6	4.1	16.3	10.7	3.6	15.8	10.7	4.0	18.9	14.6	5.5	18.3	14.4	6.1	20.0	16.6	7.4	18.2	15.3	7.9
	23	21.7	12.5	4.0	21.2	12.5	4.5	20.6	12.5	5.0	19.9	12.4	5.5	19.2	12.2	6.1	20.9	14.0	7.5	19.0	12.8	7.9
	25	22.9	10.1	4.0	22.3	10.0	4.4	21.7	9.9	5.0	21.0	9.7	5.5	20.2	9.5	6.1	22.0	10.9	7.5	20.0	9.9	8.0
32	21	20.9	16.5	4.0	20.4	16.6	4.5	19.8	16.6	5.0	19.1	16.6	5.5	18.5	16.5	6.1	20.2	18.6	7.4	18.3	16.7	7.9
	23	21.8	14.7	4.0	21.3	14.8	4.5	20.7	14.8	5.0	20.0	14.7	5.5	19.3	14.5	6.1	21.0	16.7	7.5	19.1	15.4	7.9
	25	22.9	12.7	4.0	22.3	12.6	4.4	21.7	12.6	5.0	21.0	12.4	5.5	20.2	12.2	6.1	22.0	14.1	7.5	20.0	12.9	8.0
	26	23.5	11.4	3.9	22.9	11.4	4.4	22.2	11.3	4.9	21.5	11.1	5.5	20.7	10.9	6.1	22.6	12.6	7.5	20.5	11.4	8.0

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: 3 600 l/s

OPA 680 Econex Pro at Maximum Capacity (3 600 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	42.8	39.1	13.7	54.4	50.5	16.5	63.3	63.3	16.9	65.5	65.5	17.1	69.1	69.1	17.2	74.8	74.8	17.4	77.2	77.2	17.4	78.9	78.9	17.4	80.5	80.5	17.4
15	38.8	35.4	13.3	54.5	50.7	17.6	64.9	64.9	18.0	67.1	67.1	18.3	70.7	70.7	18.4	76.5	76.5	18.6	78.9	78.9	18.6	80.5	80.5	18.7	82.1	82.1	18.7
20	35.1	32.1	12.9	50.9	47.4	17.3	66.4	66.4	19.2	68.7	68.7	19.5	72.3	72.3	19.6	78.0	78.0	19.9	80.5	80.5	19.9	82.1	82.1	20.0	83.7	83.7	20.0
25	27.6	25.2	11.1	49.3	45.9	18.4	67.9	67.9	20.5	70.2	70.2	20.8	73.8	73.8	21.0	79.6	79.6	21.2	82.0	82.0	21.3	83.7	83.7	21.3	85.3	85.3	21.4

OPA 680 Econex Pro at Nominal Capacity (3 600 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	42.8	39.1	13.7	48.5	45.1	14.0	56.5	56.5	14.2	58.5	58.5	14.4	61.7	61.7	14.4	66.8	66.8	14.5	68.9	68.9	14.5	70.4	70.4	14.5	71.8	71.8	14.5
15	38.8	35.4	13.3	48.6	45.2	14.9	57.9	57.9	15.2	59.9	59.9	15.4	63.1	63.1	15.4	68.2	68.2	15.5	70.4	70.4	15.6	71.8	71.8	15.6	73.3	73.3	15.6
20	35.1	32.1	12.9	47.9	44.5	15.9	59.3	59.3	16.2	61.3	61.3	16.4	64.5	64.5	16.5	69.6	69.6	16.6	71.8	71.8	16.7	73.3	73.3	16.7	74.7	74.7	16.7
25	27.6	25.2	11.1	46.4	43.1	16.9	60.6	60.6	17.3	62.6	62.6	17.5	65.9	65.9	17.6	71.0	71.0	17.8	73.2	73.2	17.9	74.6	74.6	17.9	76.1	76.1	17.9

OPA 680 Econex Pro at Nominal less 25% (3 600 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	36.0	32.9	11.2	40.8	37.9	11.3	47.5	47.5	11.4	49.2	49.2	11.6	51.9	51.9	11.6	56.1	56.1	11.6	57.9	57.9	11.6	59.2	59.2	11.6	60.4	60.4	11.5
15	35.0	32.0	11.9	40.9	38.0	12.1	48.7	48.7	12.2	50.3	50.3	12.4	53.0	53.0	12.4	57.4	57.4	12.4	59.2	59.2	12.4	60.4	60.4	12.4	61.6	61.6	12.4
20	34.4	31.5	12.6	40.3	37.4	12.9	49.8	49.8	13.0	51.5	51.5	13.2	54.2	54.2	13.3	58.5	58.5	13.3	60.4	60.4	13.3	61.6	61.6	13.3	62.8	62.8	13.3
25	27.6	25.2	11.1	39.0	36.2	13.7	50.9	50.9	13.9	52.6	52.6	14.1	55.4	55.4	14.2	59.7	59.7	14.3	61.6	61.6	14.3	62.8	62.8	14.3	64.0	64.0	14.3

OPA 680 Econex Pro at Nominal less 50% (3 600 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	24.1	22.1	7.6	27.2	25.3	7.7	31.7	31.7	7.7	32.8	32.8	7.7	34.5	34.5	7.7	37.4	37.4	7.7	38.6	38.6	7.6	39.4	39.4	7.6	40.2	40.2	7.6
15	23.4	21.3	8.1	27.2	25.3	8.1	32.4	32.4	8.2	33.5	33.5	8.2	35.3	35.3	8.2	38.2	38.2	8.2	39.4	39.4	8.2	40.3	40.3	8.2	41.1	41.1	8.1
20	23.0	21.0	8.5	26.8	25.0	8.6	33.2	33.2	8.7	34.3	34.3	8.8	36.1	36.1	8.8	39.0	39.0	8.8	40.3	40.3	8.8	41.1	41.1	8.7	41.9	41.9	8.7
25	22.1	20.2	9.1	26.0	24.2	9.2	34.0	34.0	9.3	35.1	35.1	9.4	36.9	36.9	9.4	39.8	39.8	9.4	41.1	41.1	9.4	41.9	41.9	9.4	42.8	42.8	9.4

OPA 680 Econex Pro at Minimum Capacity (3 600 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	6.0	5.4	3.1	6.2	5.7	3.1	7.3	7.3	3.1	7.6	7.6	3.1	7.9	7.9	3.1	8.5	8.5	3.1	8.7	8.7	3.1	8.9	8.9	3.0	9.1	9.1	3.0
15	5.3	4.9	3.2	6.2	5.7	3.2	7.5	7.5	3.2	7.7	7.7	3.2	8.1	8.1	3.2	8.7	8.7	3.2	8.9	8.9	3.2	9.1	9.1	3.2	9.3	9.3	3.2
20	5.2	4.8	3.4	6.1	5.6	3.4	7.7	7.7	3.4	7.9	7.9	3.4	8.3	8.3	3.4	8.8	8.8	3.3	9.1	9.1	3.3	9.3	9.3	3.3	9.5	9.5	3.3
25	5.0	4.6	3.5	5.9	5.4	3.5	7.8	7.8	3.5	8.0	8.0	3.5	8.4	8.4	3.5	9.0	9.0	3.5	9.3	9.3	3.5	9.5	9.5	3.5	9.6	9.6	3.5

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