



Ducted Packaged Units

Part Load Data

OPA 820 Econex Pro R32




Cooling Capacity
11 kW – 88 kW




Heating Capacity
10 kW – 97 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: **4 300 l/s**

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

OPA 820 Econex Pro @Maximum capacity (4 300 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	82.8	59.1	21.8	80.7	59.2	23.8	78.5	59.0	25.8	76.2	58.6	27.9	68.9	55.3	26.8	57.4	49.7	23.2	48.6	44.6	21.5
	15	85.9	53.6	22.0	83.8	53.5	23.9	81.5	53.2	26.0	79.0	52.6	28.2	68.4	48.4	24.9	59.5	44.8	23.4	50.3	40.3	21.6
	16	89.3	47.4	22.1	87.1	47.1	24.1	84.6	46.6	26.2	82.1	45.9	28.4	70.9	42.3	25.1	61.7	39.3	23.6	48.3	33.6	20.0
	17	92.8	40.4	22.2	90.5	39.8	24.3	88.0	39.1	26.4	85.3	38.3	28.7	73.7	35.5	25.3	64.0	33.1	23.7	50.0	28.6	20.1
22	16	88.1	59.6	22.1	85.9	59.6	24.0	83.5	59.4	26.1	81.0	58.9	28.3	70.0	54.1	25.1	60.9	50.0	23.5	47.7	42.3	19.9
	17	91.2	53.9	22.2	88.9	53.7	24.2	86.4	53.3	26.3	83.8	52.8	28.5	72.4	48.5	25.2	62.9	45.0	23.7	49.2	38.3	20.1
	18	94.5	47.6	22.3	92.1	47.1	24.3	89.5	46.6	26.5	86.8	45.9	28.8	74.9	42.3	25.4	61.2	38.2	22.0	50.8	33.8	20.2
	19	98.0	40.3	22.4	95.5	39.7	24.5	92.8	39.0	26.7	90.0	38.1	29.0	77.6	35.4	25.6	63.4	32.3	22.1	52.6	28.7	20.4
24	16	87.8	69.9	22.0	85.6	70.1	24.0	83.3	70.2	26.1	80.7	69.9	28.3	69.8	64.0	25.0	60.7	58.4	23.5	47.5	45.2	19.9
	18	93.4	60.1	22.2	91.1	60.0	24.3	88.5	59.7	26.4	85.8	59.2	28.7	74.1	54.4	25.4	64.4	50.3	23.8	50.3	42.7	20.2
	20	99.8	47.6	22.5	97.3	47.1	24.6	94.6	46.5	26.8	91.6	45.7	29.1	79.0	42.3	25.7	64.5	38.2	22.2	53.5	33.9	20.4
	21	103.3	40.2	22.6	100.6	39.5	24.7	97.8	38.7	26.9	94.8	37.8	29.3	77.7	34.6	24.1	66.6	32.2	22.3	50.5	27.0	18.7
26	17	90.7	75.0	22.2	88.5	75.4	24.2	86.0	75.5	26.3	83.4	75.3	28.5	72.0	68.9	25.2	59.0	56.6	21.8	49.0	46.6	20.0
	19	96.0	65.9	22.3	93.6	65.9	24.4	91.0	65.8	26.6	88.2	65.4	28.9	76.1	60.0	25.5	62.2	53.2	22.0	51.6	46.8	20.3
	20	98.9	60.5	22.4	96.4	60.3	24.5	93.7	60.0	26.7	90.8	59.5	29.0	78.3	54.7	25.7	64.0	48.8	22.2	53.1	43.0	20.4
	22	105.3	47.6	22.6	102.6	47.1	24.8	99.7	46.4	27.0	96.6	45.6	29.4	79.1	41.3	24.1	67.8	38.3	22.4	51.5	31.8	18.8
27	18	93.5	75.6	22.3	91.2	75.9	24.3	88.6	76.0	26.4	85.9	75.8	28.7	74.2	69.4	25.4	60.7	58.3	21.9	50.4	48.0	20.2
	19	96.1	71.1	22.3	93.7	71.3	24.4	91.1	71.2	26.6	88.3	70.9	28.9	76.2	65.0	25.5	62.3	57.5	22.0	51.7	49.3	20.3
	20	98.8	66.2	22.4	96.3	66.2	24.5	93.6	66.0	26.7	90.7	65.6	29.0	78.2	60.2	25.7	63.9	53.4	22.2	53.0	47.0	20.4
	22	104.8	54.5	22.6	102.1	54.1	24.7	99.2	53.7	27.0	96.1	53.0	29.4	78.8	47.6	24.1	67.5	43.9	22.4	56.0	38.8	20.6
28	18	93.9	80.1	22.3	91.6	80.6	24.3	89.0	80.8	26.4	83.9	78.8	27.2	74.5	72.2	25.4	60.9	58.5	21.9	50.6	48.2	20.2
	20	99.0	71.4	22.4	96.5	71.6	24.5	93.8	71.5	26.7	88.3	69.6	27.4	78.3	65.2	25.7	64.0	57.8	22.2	53.1	50.7	20.4
	22	104.5	60.8	22.6	101.8	60.7	24.7	99.0	60.3	27.0	93.2	58.5	27.8	78.6	53.4	24.1	67.4	49.1	22.4	55.9	43.3	20.6
	24	110.8	47.6	22.8	107.9	47.0	25.0	104.9	46.4	27.3	94.8	43.8	26.1	83.1	41.4	24.4	66.5	37.0	20.8	59.0	34.1	20.9
30	19	94.3	83.6	20.3	91.4	83.6	22.3	88.3	83.3	24.5	81.8	79.4	24.1	78.2	75.9	26.5	57.6	55.3	22.7	54.1	51.8	25.0
	21	98.9	75.6	20.4	95.9	75.4	22.5	92.6	74.9	24.8	85.7	72.3	24.4	82.0	71.0	26.8	60.3	53.3	23.0	56.6	51.3	25.4
	23	104.0	66.0	20.6	100.8	65.6	22.7	97.4	64.9	25.1	90.1	62.5	24.7	86.2	61.1	27.2	63.4	45.8	23.3	59.5	43.8	25.7
	25	109.7	54.2	20.7	106.4	53.5	22.9	102.7	52.6	25.3	95.0	50.6	25.0	90.9	49.2	27.5	66.8	36.6	23.6	62.7	34.8	26.1
32	21	100.0	84.8	20.5	96.9	84.9	22.6	93.6	84.5	24.9	86.6	81.5	24.5	82.9	79.9	26.9	61.0	58.6	23.1	57.2	54.9	25.4
	23	104.6	76.5	20.6	101.4	76.3	22.8	97.9	75.8	25.1	90.6	73.1	24.7	86.7	71.7	27.2	63.7	53.9	23.3	59.8	51.8	25.8
	25	109.7	66.5	20.7	106.4	66.0	22.9	102.7	65.3	25.3	95.0	62.9	25.0	90.9	61.5	27.5	66.8	46.1	23.6	62.7	44.1	26.1
	26	112.5	60.7	20.8	109.1	60.1	23.0	105.3	59.3	25.5	97.4	57.1	25.1	93.1	55.7	27.7	68.5	41.6	23.8	64.3	39.7	26.3

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: **4 300 l/s**

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

OPA 820 Econex Pro @Nominal capacity (4 300 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	77.3	56.3	19.1	75.5	56.3	20.9	73.4	56.2	22.7	71.3	55.8	24.7	68.9	55.3	26.8	57.4	49.7	23.2	45.0	42.0	19.7
	15	80.2	51.2	19.2	78.3	51.0	21.0	76.2	50.7	22.9	73.9	50.2	24.9	69.9	48.9	26.0	59.5	44.8	23.4	46.6	38.0	19.8
	16	83.3	45.4	19.3	81.3	45.1	21.1	79.1	44.6	23.0	76.7	44.0	25.1	72.5	42.7	26.2	61.7	39.3	23.6	48.3	33.6	20.0
	17	86.6	38.9	19.4	84.5	38.3	21.3	82.2	37.6	23.2	79.7	36.9	25.3	75.3	35.6	26.4	64.0	33.1	23.7	50.0	28.6	20.1
22	16	82.2	56.8	19.3	80.2	56.7	21.1	78.0	56.5	23.0	75.7	56.1	25.0	71.6	54.7	26.1	60.9	50.0	23.5	47.7	42.3	19.9
	17	85.1	51.5	19.4	83.0	51.3	21.2	80.7	50.9	23.1	78.3	50.4	25.2	74.0	49.0	26.3	62.9	45.0	23.7	49.2	38.3	20.1
	18	88.1	45.6	19.5	85.9	45.2	21.3	83.6	44.6	23.3	81.1	44.0	25.3	76.6	42.7	26.5	65.1	39.4	23.8	50.8	33.8	20.2
	19	91.3	38.9	19.5	89.1	38.3	21.4	86.6	37.5	23.4	84.0	36.7	25.5	79.4	35.5	26.7	67.4	33.1	24.0	52.6	28.7	20.4
24	16	81.9	66.3	19.3	80.0	66.6	21.1	77.8	66.6	23.0	75.5	66.4	25.0	71.4	64.9	26.1	60.7	58.4	23.5	47.5	45.2	19.9
	18	87.1	57.2	19.4	85.0	57.2	21.3	82.7	56.9	23.2	80.2	56.5	25.3	75.8	55.0	26.4	64.4	50.3	23.8	50.3	42.7	20.2
	20	93.0	45.6	19.6	90.7	45.2	21.5	88.2	44.6	23.5	85.6	43.9	25.6	80.8	42.6	26.8	68.6	39.4	24.1	53.5	33.9	20.4
	21	96.2	38.8	19.6	93.8	38.1	21.6	91.2	37.4	23.6	88.5	36.5	25.8	83.5	35.3	27.0	70.8	33.0	24.3	55.2	28.7	20.6
26	17	84.7	71.2	19.4	82.6	71.5	21.2	80.4	71.6	23.1	78.0	71.5	25.1	73.7	69.9	26.3	62.6	60.3	23.6	49.0	46.6	20.0
	19	89.5	62.7	19.5	87.3	62.7	21.4	85.0	62.6	23.3	82.4	62.2	25.4	76.1	60.0	25.5	62.2	53.2	22.0	51.6	46.8	20.3
	20	92.2	57.6	19.6	89.9	57.5	21.5	87.5	57.2	23.5	84.8	56.7	25.6	78.3	54.7	25.7	64.0	48.8	22.2	53.1	43.0	20.4
	22	98.1	45.7	19.7	95.6	45.2	21.6	93.0	44.6	23.7	90.1	43.8	25.9	83.2	42.2	26.0	67.8	38.3	22.4	56.2	34.0	20.7
27	18	87.2	71.7	19.4	85.1	72.0	21.3	82.8	72.1	23.2	80.3	71.9	25.3	74.2	69.4	25.4	60.7	58.3	21.9	50.4	48.0	20.2
	19	89.6	67.5	19.5	87.4	67.7	21.4	85.0	67.7	23.3	82.5	67.4	25.4	76.2	65.0	25.5	62.3	57.5	22.0	51.7	49.3	20.3
	20	92.1	62.9	19.6	89.8	63.0	21.5	87.4	62.8	23.4	84.7	62.4	25.6	78.2	60.2	25.7	63.9	53.4	22.2	53.0	47.0	20.4
	22	97.6	52.1	19.7	95.2	51.8	21.6	92.5	51.3	23.7	89.7	50.7	25.9	82.8	48.8	26.0	67.5	43.9	22.4	56.0	38.8	20.6
28	18	87.6	75.9	19.4	85.4	76.4	21.3	83.1	76.6	23.2	80.6	76.5	25.3	74.5	72.2	25.4	60.9	58.5	21.9	50.6	48.2	20.2
	20	92.3	67.9	19.6	90.0	68.0	21.5	87.5	68.0	23.5	84.9	67.7	25.6	78.3	65.2	25.7	64.0	57.8	22.2	53.1	50.7	20.4
	22	97.4	58.0	19.7	94.9	57.9	21.6	92.3	57.5	23.7	89.5	57.0	25.8	82.6	54.9	26.0	67.4	49.1	22.4	55.9	43.3	20.6
	24	103.2	45.7	19.8	100.6	45.2	21.8	97.8	44.6	23.9	94.8	43.8	26.1	87.4	42.2	26.3	71.2	38.4	22.7	59.0	34.1	20.9
30	19	90.8	80.6	19.5	88.5	81.2	21.4	86.1	81.4	23.4	83.5	81.2	25.5	77.1	74.8	25.6	63.0	60.7	22.1	52.3	49.9	20.3
	21	95.2	73.0	19.6	92.8	73.2	21.5	90.3	73.3	23.6	87.5	73.0	25.7	78.9	69.2	25.0	65.9	62.2	22.3	54.7	52.3	20.5
	23	100.1	63.7	19.7	97.5	63.6	21.7	94.8	63.4	23.8	92.0	63.0	26.0	82.8	59.8	25.2	69.2	54.1	22.5	54.4	45.7	19.6
	25	105.5	52.3	19.8	102.8	52.0	21.8	99.9	51.4	24.0	96.9	50.7	26.2	87.2	48.3	25.5	72.8	44.2	22.7	57.2	37.7	19.8
32	21	96.2	81.8	19.6	93.8	82.4	21.6	91.2	82.6	23.6	88.5	82.5	25.8	79.7	77.3	25.0	66.6	64.3	22.3	52.4	50.1	19.5
	23	100.6	73.8	19.7	98.1	74.0	21.7	95.4	74.0	23.8	92.5	73.8	26.0	83.2	70.0	25.2	69.5	63.0	22.5	54.7	52.3	19.6
	25	105.5	64.1	19.8	102.8	64.1	21.8	99.9	63.8	24.0	96.9	63.3	26.2	87.2	60.2	25.5	72.8	54.5	22.7	57.2	46.1	19.8
	26	108.1	58.5	19.8	105.4	58.3	21.9	102.4	57.9	24.1	99.3	57.3	26.4	89.3	54.5	25.6	74.5	49.7	22.9	58.5	42.2	19.9

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: **4 300 l/s**

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

OPA 820 Econex Pro @Maximum less 25% (4 300 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	62.0	49.3	13.7	60.6	49.3	15.0	59.1	49.1	16.4	57.4	48.8	17.8	55.6	48.2	19.4	53.7	47.5	21.2	45.0	42.0	19.7
	15	64.3	45.3	13.7	62.9	45.2	15.0	61.2	44.8	16.4	59.5	44.4	17.9	57.6	43.8	19.6	55.6	43.0	21.3	46.6	38.0	19.8
	16	66.8	40.9	13.7	65.2	40.5	15.1	63.5	40.1	16.5	61.7	39.5	18.0	59.7	38.7	19.7	57.6	37.9	21.5	48.3	33.6	20.0
	17	69.3	35.8	13.7	67.7	35.2	15.1	66.0	34.6	16.6	64.1	33.9	18.1	62.0	33.1	19.8	59.8	32.1	21.7	50.0	28.6	20.1
22	16	65.9	49.9	13.7	64.3	49.8	15.1	62.7	49.6	16.5	60.9	49.2	18.0	59.0	48.6	19.7	56.9	47.8	21.4	47.7	42.3	19.9
	17	68.1	45.8	13.7	66.5	45.6	15.1	64.8	45.2	16.5	63.0	44.7	18.1	61.0	44.0	19.8	58.8	43.2	21.6	49.2	38.3	20.1
	18	70.5	41.2	13.7	68.9	40.8	15.1	67.1	40.3	16.6	65.1	39.7	18.2	63.0	38.9	19.9	60.8	38.0	21.8	50.8	33.8	20.2
	19	73.1	36.0	13.7	71.3	35.5	15.2	69.5	34.8	16.7	67.4	34.0	18.3	65.3	33.1	20.0	62.9	32.2	21.9	52.6	28.7	20.4
24	16	65.7	57.6	13.7	64.2	57.7	15.1	62.5	57.7	16.5	60.7	57.5	18.0	58.8	56.4	19.6	56.7	54.4	21.4	47.5	45.2	19.9
	18	69.8	50.5	13.7	68.1	50.4	15.1	66.4	50.1	16.6	64.4	49.7	18.2	62.4	49.0	19.9	60.2	48.2	21.7	50.3	42.7	20.2
	20	74.4	41.5	13.8	72.6	41.1	15.2	70.7	40.5	16.7	68.6	39.8	18.3	66.4	39.0	20.1	64.0	38.1	22.0	53.5	33.9	20.4
	21	76.9	36.3	13.8	75.1	35.6	15.2	73.1	34.9	16.8	70.9	34.1	18.4	68.6	33.2	20.2	66.1	32.1	22.1	55.2	28.7	20.6
26	17	67.8	61.6	13.7	66.2	61.8	15.1	64.5	61.8	16.5	62.7	60.3	18.1	60.7	58.3	19.8	58.5	56.2	21.6	49.0	46.6	20.0
	19	71.7	55.0	13.7	70.0	55.0	15.2	68.1	54.8	16.6	66.2	54.4	18.2	64.0	53.8	19.9	61.7	52.9	21.8	51.6	46.8	20.3
	20	73.8	51.1	13.8	72.0	50.9	15.2	70.1	50.6	16.7	68.1	50.1	18.3	65.9	49.4	20.1	63.5	48.5	21.9	53.1	43.0	20.4
	22	78.4	41.8	13.8	76.5	41.3	15.2	74.4	40.7	16.8	72.2	40.0	18.5	69.9	39.1	20.3	67.3	38.1	22.2	56.2	34.0	20.7
27	18	69.8	62.1	13.7	68.2	62.3	15.1	66.4	62.3	16.6	64.5	62.1	18.2	62.4	60.1	19.9	60.2	57.9	21.7	50.4	48.0	20.2
	19	71.7	58.9	13.7	70.0	59.0	15.2	68.2	58.9	16.6	66.2	58.5	18.2	64.1	58.0	20.0	61.8	57.2	21.8	51.7	49.3	20.3
	20	73.7	55.3	13.8	71.9	55.3	15.2	70.0	55.1	16.7	68.0	54.7	18.3	65.8	54.0	20.0	63.4	53.2	21.9	53.0	47.0	20.4
	22	78.0	46.9	13.8	76.1	46.6	15.2	74.1	46.1	16.8	71.9	45.5	18.5	69.6	44.7	20.2	67.1	43.7	22.2	56.0	38.8	20.6
28	18	70.1	65.5	13.7	68.5	65.8	15.1	66.7	64.3	16.6	64.8	62.4	18.2	62.7	60.3	19.9	60.5	58.1	21.7	50.6	48.2	20.2
	20	73.8	59.3	13.8	72.0	59.3	15.2	70.1	59.2	16.7	68.1	58.9	18.3	65.9	58.3	20.1	63.5	57.5	22.0	53.1	50.7	20.4
	22	77.8	51.7	13.8	76.0	51.4	15.2	73.9	51.1	16.8	71.8	50.5	18.4	69.4	49.8	20.2	66.9	48.9	22.2	55.9	43.3	20.6
	24	82.4	42.2	13.7	80.4	41.6	15.3	78.2	41.0	16.9	75.9	40.2	18.6	73.4	39.3	20.4	70.7	38.3	22.4	59.0	34.1	20.9
30	19	72.6	69.4	13.7	70.9	68.6	15.2	69.1	66.7	16.7	67.0	64.7	18.3	64.9	62.5	20.0	62.6	60.2	21.9	52.3	49.9	20.3
	21	76.1	63.5	13.8	74.3	63.7	15.2	72.3	63.6	16.7	70.2	63.3	18.4	67.9	62.7	20.2	65.5	61.9	22.1	54.7	52.3	20.5
	23	80.0	56.3	13.8	78.0	56.2	15.3	75.9	55.9	16.8	73.7	55.4	18.5	71.3	54.7	20.3	68.7	53.8	22.3	54.4	45.7	19.6
	25	84.2	47.6	13.7	82.2	47.1	15.3	79.9	46.6	16.9	77.5	45.9	18.6	75.0	45.0	20.5	67.9	42.5	20.8	57.2	37.7	19.8
32	21	76.9	70.6	13.8	75.1	71.0	15.2	73.1	70.7	16.8	70.9	68.6	18.4	68.6	66.2	20.2	66.1	63.8	22.1	52.4	50.1	19.5
	23	80.4	64.4	13.7	78.4	64.6	15.3	76.3	64.5	16.8	74.1	64.1	18.5	71.6	63.5	20.3	69.0	62.6	22.3	54.7	52.3	19.6
	25	84.2	57.0	13.7	82.2	56.8	15.3	79.9	56.5	16.9	77.5	56.0	18.6	75.0	55.2	20.5	67.9	52.1	20.8	57.2	46.1	19.8
	26	86.3	52.7	13.7	84.2	52.4	15.3	81.9	51.9	16.9	79.4	51.3	18.7	76.8	50.5	20.6	69.5	47.6	20.9	58.5	42.2	19.9

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: **4 300 l/s**

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

OPA 820 Econex Pro @Maximum less 50% (4 300 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	41.4	35.3	8.9	40.5	35.2	9.7	39.4	35.1	10.6	38.3	34.8	11.6	37.1	34.3	12.6	35.8	33.5	13.8	38.9	36.5	16.9
	15	42.9	32.8	8.9	41.9	32.6	9.7	40.9	32.3	10.6	39.7	31.9	11.6	38.4	31.4	12.7	37.1	30.7	13.9	40.3	33.6	17.1
	16	44.5	29.9	8.8	43.5	29.6	9.7	42.4	29.2	10.7	41.2	28.7	11.7	39.8	28.1	12.8	38.4	27.4	14.0	41.7	29.8	17.2
	17	46.2	26.7	8.8	45.2	26.2	9.7	44.0	25.7	10.7	42.7	25.1	11.7	41.3	24.5	12.8	39.8	23.7	14.1	43.2	25.5	17.3
22	16	43.9	35.9	8.8	42.9	35.8	9.7	41.8	35.6	10.7	40.6	35.2	11.6	39.3	34.7	12.7	37.9	34.0	14.0	41.2	37.3	17.1
	17	45.4	33.3	8.8	44.4	33.1	9.7	43.2	32.7	10.7	42.0	32.3	11.7	40.6	31.7	12.8	39.1	31.0	14.0	42.5	33.8	17.3
	18	47.0	30.4	8.8	45.9	30.0	9.7	44.7	29.6	10.7	43.4	29.0	11.7	42.0	28.4	12.8	40.4	27.6	14.1	43.9	30.0	17.4
	19	48.7	27.0	8.7	47.6	26.6	9.7	46.3	26.0	10.7	45.0	25.4	11.7	43.5	24.6	12.9	41.8	23.8	14.2	45.4	25.6	17.5
24	16	43.8	41.0	8.9	42.8	40.4	9.7	41.7	39.4	10.7	40.5	38.2	11.6	39.2	36.9	12.7	37.8	35.4	13.9	41.0	38.7	17.1
	18	46.5	36.5	8.8	45.4	36.4	9.7	44.3	36.1	10.7	43.0	35.7	11.7	41.6	35.1	12.8	40.0	34.4	14.1	43.4	37.7	17.3
	20	49.6	30.8	8.7	48.5	30.4	9.7	47.2	29.9	10.7	45.8	29.3	11.7	44.2	28.6	12.9	42.6	27.8	14.2	46.2	30.1	17.6
	21	51.3	27.4	8.7	50.1	26.9	9.6	48.7	26.3	10.7	47.3	25.6	11.8	45.7	24.8	13.0	43.9	24.0	14.3	47.6	25.7	17.7
26	17	45.2	42.9	8.8	44.2	41.8	9.7	43.0	40.7	10.7	41.8	39.4	11.7	40.4	38.1	12.8	39.0	36.6	14.0	42.3	39.9	17.2
	19	47.8	39.6	8.8	46.7	39.5	9.7	45.4	39.3	10.7	44.1	38.9	11.7	42.6	38.3	12.9	41.1	37.6	14.1	44.5	41.3	17.4
	20	49.2	37.1	8.7	48.0	36.9	9.7	46.8	36.6	10.7	45.4	36.1	11.7	43.8	35.5	12.9	42.2	34.8	14.2	45.8	38.0	17.5
	22	52.3	31.2	8.7	51.0	30.8	9.6	49.7	30.2	10.7	48.1	29.6	11.8	46.5	28.9	13.0	44.7	28.0	14.3	48.5	30.3	17.7
27	18	46.6	44.2	8.8	45.5	43.1	9.7	44.3	41.9	10.7	43.0	40.6	11.7	41.6	39.2	12.8	40.1	37.7	14.1	43.5	41.1	17.3
	19	47.8	42.2	8.8	46.7	42.2	9.7	45.5	42.0	10.7	44.1	41.7	11.7	42.7	40.3	12.9	41.1	38.7	14.1	44.6	42.2	17.4
	20	49.2	39.9	8.7	48.0	39.8	9.7	46.7	39.6	10.7	45.3	39.2	11.7	43.8	38.6	12.9	42.2	37.8	14.2	45.7	41.5	17.5
	22	52.1	34.6	8.7	50.8	34.3	9.6	49.4	33.8	10.7	47.9	33.2	11.8	46.3	32.5	13.0	44.5	31.7	14.3	48.3	34.5	17.7
28	18	46.8	44.4	8.8	45.7	43.3	9.7	44.5	42.1	10.7	43.2	40.8	11.7	41.8	39.4	12.8	40.2	37.9	14.1	43.7	41.3	17.4
	20	49.2	42.6	8.7	48.1	42.5	9.7	46.8	42.3	10.7	45.4	42.0	11.7	43.9	41.4	12.9	42.2	39.9	14.2	45.8	43.4	17.5
	22	51.9	37.7	8.7	50.7	37.5	9.6	49.3	37.1	10.7	47.8	36.6	11.8	46.2	35.9	13.0	44.4	35.1	14.3	48.2	38.3	17.7
	24	55.0	31.7	8.6	53.7	31.2	9.6	52.2	30.6	10.7	50.6	29.9	11.8	48.8	29.2	13.0	46.9	28.3	14.4	50.9	30.5	17.9
30	19	94.3	83.6	20.3	91.4	83.6	22.3	88.3	83.3	24.5	81.8	79.4	24.1	78.2	75.9	26.5	57.6	55.3	22.7	54.1	51.8	25.0
	21	98.9	75.6	20.4	95.9	75.4	22.5	92.6	74.9	24.8	85.7	72.3	24.4	82.0	71.0	26.8	60.3	53.3	23.0	56.6	51.3	25.4
	23	104.0	66.0	20.6	100.8	65.6	22.7	97.4	64.9	25.1	90.1	62.5	24.7	86.2	61.1	27.2	63.4	45.8	23.3	59.5	43.8	25.7
	25	109.7	54.2	20.7	106.4	53.5	22.9	102.7	52.6	25.3	95.0	50.6	25.0	90.9	49.2	27.5	66.8	36.6	23.6	62.7	34.8	26.1
32	21	100.0	84.8	20.5	96.9	84.9	22.6	93.6	84.5	24.9	86.6	81.5	24.5	82.9	79.9	26.9	61.0	58.6	23.1	57.2	54.9	25.4
	23	104.6	76.5	20.6	101.4	76.3	22.8	97.9	75.8	25.1	90.6	73.1	24.7	86.7	71.7	27.2	63.7	53.9	23.3	59.8	51.8	25.8
	25	109.7	66.5	20.7	106.4	66.0	22.9	102.7	65.3	25.3	95.0	62.9	25.0	90.9	61.5	27.5	66.8	46.1	23.6	62.7	44.1	26.1
	26	112.5	60.7	20.8	109.1	60.1	23.0	105.3	59.3	25.5	97.4	57.1	25.1	93.1	55.7	27.7	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: **4 300 l/s**

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

OPA 820 Econex Pro @Minimum capacity (4 300 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	10.2	7.0	5.7	10.0	6.9	6.0	9.7	6.9	6.3	9.4	6.8	6.7	10.5	8.1	7.5	13.5	11.1	9.6	16.0	13.6	12.1
	15	10.6	6.4	5.7	10.3	6.3	6.0	10.0	6.2	6.3	9.7	6.1	6.7	10.9	7.3	7.6	14.0	10.2	9.6	16.5	12.2	12.1
	16	11.0	5.7	5.7	10.7	5.6	6.0	10.4	5.5	6.3	10.1	5.3	6.7	11.3	6.4	7.6	14.5	8.9	9.6	17.1	10.7	12.2
	17	11.5	4.9	5.7	11.2	4.8	6.0	10.8	4.6	6.3	10.5	4.4	6.7	11.7	5.3	7.6	15.0	7.5	9.7	17.7	8.9	12.3
22	16	10.9	7.1	5.7	10.6	7.1	6.0	10.3	7.0	6.3	10.0	6.9	6.7	11.1	8.2	7.6	14.3	11.4	9.6	16.9	13.8	12.2
	17	11.2	6.5	5.7	11.0	6.4	6.0	10.7	6.3	6.3	10.3	6.2	6.7	13.5	9.0	8.3	14.8	10.3	9.7	17.4	12.3	12.3
	18	11.7	5.8	5.7	11.4	5.7	6.0	11.0	5.6	6.3	10.7	5.4	6.7	13.9	8.0	8.3	15.2	9.0	9.7	18.0	10.7	12.3
	19	12.1	5.0	5.6	11.8	4.9	6.0	11.4	4.7	6.3	11.1	4.5	6.7	14.4	6.7	8.3	15.8	7.6	9.7	18.6	9.0	12.4
24	16	10.8	8.4	5.7	10.6	8.2	6.0	10.3	7.9	6.3	9.9	7.6	6.7	11.1	8.8	7.6	14.2	11.9	9.6	16.8	14.5	12.2
	18	13.3	8.9	6.0	11.2	7.3	6.0	10.9	7.2	6.3	10.5	7.0	6.7	13.8	10.2	8.3	15.1	11.5	9.7	17.8	13.9	12.3
	20	14.2	7.3	5.9	12.0	5.8	6.0	11.7	5.7	6.3	11.3	5.5	6.7	14.7	8.0	8.3	16.0	9.1	9.8	18.9	10.8	12.4
	21	14.7	6.3	5.9	12.5	5.0	5.9	12.1	4.8	6.3	11.6	4.6	6.7	15.1	6.8	8.3	16.6	7.6	9.8	19.5	9.0	12.5
26	17	11.2	8.8	5.7	10.9	8.6	6.0	10.6	8.2	6.3	10.2	7.9	6.7	13.4	11.0	8.3	14.7	12.3	9.7	17.4	15.0	12.3
	19	13.7	9.8	6.0	11.6	8.1	6.0	11.2	8.0	6.3	10.8	7.8	6.7	14.1	11.2	8.3	15.5	12.7	9.7	18.3	15.4	12.4
	20	16.4	10.9	6.4	11.9	7.4	6.0	11.6	7.3	6.3	12.9	8.7	7.1	14.5	10.3	8.3	15.9	11.7	9.8	18.8	14.0	12.4
	22	17.4	9.0	6.3	12.7	5.9	5.9	12.3	5.8	6.3	13.7	6.9	7.1	15.4	8.1	8.4	16.9	9.1	9.8	19.9	10.8	12.6
27	18	13.3	11.0	6.0	11.3	8.9	6.0	10.9	8.6	6.3	10.6	8.2	6.7	13.8	11.4	8.3	15.1	12.7	9.7	17.8	15.5	12.3
	19	13.7	10.5	6.0	11.6	8.7	6.0	11.3	8.6	6.3	11.2	8.5	6.7	14.1	11.8	8.3	15.5	13.1	9.7	18.3	15.9	12.4
	20	16.4	11.9	6.4	11.9	8.2	6.0	11.5	8.1	6.3	12.9	9.6	7.1	14.5	11.3	8.3	15.9	12.8	9.8	18.8	15.4	12.4
	22	17.4	10.1	6.3	12.6	6.8	5.9	12.3	6.7	6.3	13.7	7.9	7.1	15.3	9.3	8.4	16.8	10.5	9.8	19.8	12.6	12.5
28	18	13.4	11.0	6.0	11.3	8.9	6.0	11.0	8.6	6.3	10.6	8.2	6.7	13.8	11.5	8.3	15.2	12.8	9.7	17.9	15.5	12.3
	20	14.1	10.7	5.9	11.9	8.8	6.0	11.6	8.7	6.3	12.9	10.4	7.1	14.5	12.2	8.3	15.9	13.6	9.8	18.8	16.4	12.4
	22	17.3	11.2	6.3	12.6	7.6	5.9	12.2	7.5	6.3	13.6	8.9	7.1	15.3	10.5	8.4	16.7	11.8	9.8	19.8	14.1	12.5
	24	18.4	9.2	6.3	13.4	6.1	5.9	13.0	5.9	6.3	14.5	7.0	7.1	16.2	8.2	8.4	17.7	9.2	9.9	20.9	10.9	12.7
30	19	13.9	11.5	6.0	11.7	9.4	6.0	11.4	9.0	6.3	12.7	10.4	7.1	14.3	12.0	8.3	15.7	13.3	9.7	18.5	16.2	12.4
	21	14.6	11.5	5.9	12.3	9.6	5.9	11.9	9.5	6.3	13.3	11.0	7.1	15.0	12.6	8.3	16.4	14.0	9.8	19.3	17.0	12.5
	23	17.8	12.2	6.3	13.0	8.5	5.9	12.6	8.3	6.3	14.0	9.9	7.1	15.7	11.6	8.4	17.2	13.1	9.8	20.3	15.7	12.6
	25	18.8	10.4	6.3	13.7	7.0	5.9	13.3	6.9	6.2	14.8	8.1	7.1	16.5	9.5	8.4	18.1	10.7	9.9	21.3	12.7	12.7
32	21	17.1	14.8	6.3	12.5	10.1	5.9	12.1	9.7	6.3	13.5	11.1	7.1	15.1	12.8	8.3	16.6	14.2	9.8	19.5	17.2	12.5
	23	20.3	16.1	6.8	15.0	11.8	6.3	14.6	11.7	6.7	16.4	13.8	7.8	15.8	13.4	8.4	17.3	14.9	9.8	20.4	18.0	12.6
	25	21.3	14.3	6.7	20.7	14.3	7.3	20.2	14.1	7.9	19.5	13.9	8.5	21.0	15.2	10.0	20.2	14.9	10.8	21.3	15.9	12.7
	26	21.8	13.3	6.7	21.3	13.2	7.3	20.7	13.0	7.9	20.0	12.7	8.5	21.5	13.9	10.0	20.7	13.6	10.8	21.8	14.4	12.8

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)

81.4 = Nominal Capacity (kW)
Nominal Air Flow: **4 300 l/s**

OPA 820 Econex Pro at Maximum Capacity (4 300 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	48.3	33.8	18.6	67.4	50.6	24.8	78.7	65.2	25.4	88.0	88.0	29.1	92.8	92.8	29.3	100.5	100.5	29.7	103.8	103.8	29.8	105.9	105.9	29.9	108.2	108.2	30.0	
15	41.3	28.9	16.9	64.5	48.4	24.5	76.8	62.3	25.0	90.0	90.0	30.7	94.9	94.9	31.0	102.6	102.6	31.4	105.9	105.9	31.5	108.1	108.1	31.6	110.3	110.3	31.7	
20	37.8	26.4	16.4	60.4	45.3	24.1	74.7	58.6	24.6	92.1	92.1	32.4	97.0	97.0	32.7	101.2	101.2	31.3	104.4	104.4	31.5	106.5	106.5	31.5	108.6	108.6	31.6	
25	33.5	23.5	15.9	55.4	41.6	23.7	72.4	54.1	24.1	87.0	87.0	30.2	91.5	91.5	30.5	94.1	94.1	28.8	97.0	97.0	28.9	98.9	98.9	29.0	100.9	100.9	29.0	

OPA 820 Econex Pro at Nominal Capacity (4 300 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	48.3	33.8	18.6	61.2	45.9	21.7	71.4	59.2	22.1	73.9	73.9	22.4	78.0	78.0	22.5	84.4	84.4	22.7	87.2	87.2	22.7	89.0	89.0	22.8	90.8	90.8	22.8	
15	41.3	28.9	16.9	61.3	46.0	22.9	73.1	59.3	23.3	75.6	75.6	23.6	79.7	79.7	23.8	86.2	86.2	24.0	88.9	88.9	24.0	90.7	90.7	24.1	92.6	92.6	24.1	
20	37.8	26.4	16.4	60.4	45.3	24.1	74.7	58.6	24.6	77.3	77.3	24.9	81.4	81.4	25.1	87.9	87.9	25.3	90.6	90.6	25.4	92.5	92.5	25.4	94.3	94.3	25.5	
25	33.5	23.5	15.9	55.4	41.6	23.7	72.4	54.1	24.1	78.9	78.9	26.3	83.0	83.0	26.5	89.5	89.5	26.8	92.3	92.3	26.9	94.1	94.1	26.9	96.0	96.0	27.0	

OPA 820 Econex Pro at Nominal less 25% (4 300 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	46.5	32.5	17.8	52.7	39.5	18.1	61.5	51.0	18.3	63.7	63.7	18.5	67.2	67.2	18.5	72.7	72.7	18.6	75.1	75.1	18.6	76.7	76.7	18.6	78.3	78.3	18.6	
15	41.3	28.9	16.9	52.8	39.6	19.0	62.9	51.1	19.3	65.1	65.1	19.5	68.7	68.7	19.5	74.2	74.2	19.7	76.6	76.6	19.7	78.2	78.2	19.7	79.8	79.8	19.7	
20	37.8	26.4	16.4	52.0	39.0	20.0	64.4	50.5	20.3	66.5	66.5	20.5	70.1	70.1	20.6	75.7	75.7	20.8	78.1	78.1	20.8	79.7	79.7	20.8	81.3	81.3	20.8	
25	33.5	23.5	15.9	50.4	37.8	21.0	65.8	49.2	21.4	68.0	68.0	21.6	71.5	71.5	21.8	77.1	77.1	21.9	79.5	79.5	22.0	81.1	81.1	22.0	82.7	82.7	22.0	

OPA 820 Econex Pro at Nominal less 50% (4 300 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	30.3	21.2	12.0	34.2	25.7	12.1	39.9	33.1	12.1	41.3	41.3	12.2	43.6	43.6	12.2	47.2	47.2	12.1	48.8	48.8	12.1	49.8	49.8	12.1	50.8	50.8	12.1	
15	29.4	20.6	12.5	34.3	25.7	12.6	40.9	33.2	12.7	42.3	42.3	12.7	44.6	44.6	12.7	48.2	48.2	12.7	49.8	49.8	12.7	50.8	50.8	12.7	51.9	51.9	12.7	
20	28.9	20.2	13.0	33.8	25.4	13.1	41.8	32.8	13.2	43.2	43.2	13.3	45.6	45.6	13.3	49.2	49.2	13.3	50.8	50.8	13.3	51.8	51.8	13.3	52.9	52.9	13.3	
25	27.8	19.5	13.6	32.7	24.6	13.7	42.7	31.9	13.8	44.2	44.2	14.0	46.5	46.5	14.0	50.2	50.2	14.0	51.8	51.8	14.0	52.8	52.8	14.0	53.9	53.9	14.0	

OPA 820 Econex Pro at Minimum Capacity (4 300 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	6.9	4.8	5.4	7.5	5.6	5.4	8.8	8.8	5.4	9.1	9.1	5.4	9.5	9.5	5.4	10.3	10.3	5.4	10.6	10.6	5.4	10.9	10.9	5.4	11.1	11.1	5.3	
15	6.5	4.5	5.5	7.5	5.6	5.5	9.0	9.0	5.5	9.3	9.3	5.5	9.8	9.8	5.5	10.5	10.5	5.5	10.9	10.9	5.5	11.1	11.1	5.5	11.3	11.3	5.5	
20	6.3	4.4	5.6	7.4	5.6	5.6	9.2	9.2	5.6	9.5	9.5	5.7	10.0	10.0	5.7	10.8	10.8	5.6	11.1	11.1	5.6	11.4	11.4	5.6	11.6	11.6	5.6	
25	6.1	4.3	5.8	7.2	5.4	5.8	9.4	9.4	5.8	9.7	9.7	5.8	10.2	10.2	5.8	11.0	11.0	5.8	11.4	11.4	5.8	11.6	11.6	5.8	11.8	11.8	5.8	

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