

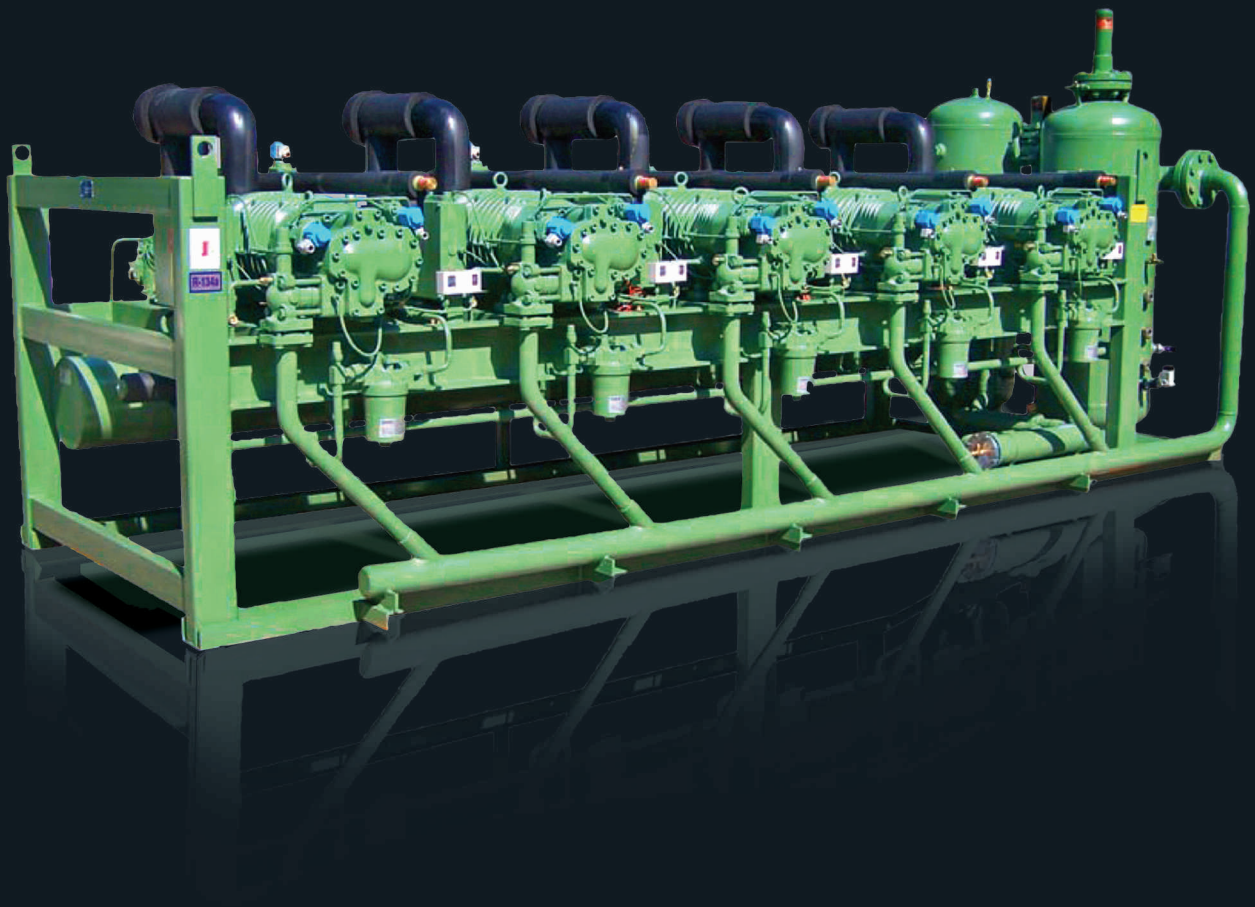
SEMI-HERMETIC

SCREW COMPRESSORS

MULTIPLE SCREW COMPRESSOR UNIT

ORIGINAL MANUFACTURED EQUIPMENT

HyperPAC



PRODUCTS SPECIFICATIONS

Multiple Semi-hermetic or Open drive screw compressors.

The proven series of HS & OS screw compressors from BITZER. The package displacement ranges from 168 to 2460 m³/h (50 Hz).

The multiple compressor packages are available with several options.

Standard HyperPAC units

- with 2..6 compressors
- HSK(N)5343..HSK(N)8591
- OSK(N)5341..OSK(N)8571

Important features

- ☐ Robust construction with compact dimensions
- ☐ High energy efficiency compressors including high motor efficiency
- ☐ Optimum economiser operation for both medium and low temperature
- ☐ High flexibility with capacity control
- ☐ Fully piped oil system complete with safety devices
- ☐ Fully piped discharge lines to the oil separator
- ☐ High efficiency oil separator with level control, oil heaters, thermostat and sight glasses
- ☐ Fully piped economiser's with separate plate heat exchanger per compressor
- ☐ Insulated sub cooled liquid line with isolation valve
- ☐ Intelligent motor protection devices, thermal monitoring, phase sequence and restart time delay
- ☐ Fully piped suction gas header/distributor oversized to give flood back protection
- ☐ Integrated individual suction gas filters for each compressor (85 series using suction gas strainers)
- ☐ Generously sized liquid receiver
- ☐ Generously sized liquid filter drier
- ☐ Liquid line sight glass with moisture indicator
- ☐ Maximum allowable pressure 28 bar
- ☐ Pressure switch: High pressure (manual) and low pressure (auto)
- ☐ Oil charge for start up supplied

Comprehensive application range

- Refrigerants: R134a, R404A, R507A, R407C and R22.
 - High, medium and low temperature
- ☐ All pressure vessels used are "Original" BITZER vessels.
 - ☐ Shipped with a Nitrogen protective holding charge.



Options

- ☐ Water cooled or air cooled condenser to suit
- ☐ Water cooled or air cooled oil coolers (if required)
- ☐ Ester oil charge to suit HFC refrigerants: R134a, R404A, R507A and R407C
- ☐ Suction accumulator to reduce the danger of liquid flood back to the compressor
- ☐ Pressure gauges: High and Low pressure gauges fitted. Liquid filled gauges with isolation valves
- ☐ Electrical control board complete with PLC controller, run lights and individual fault lights. (Multiple options available)

Extent of delivery and accessories

Refer to Price List

Performance data

All given values of the cooling capacity (kW) are based on 50 Hz. The liquid temperature is defined as 5 K above saturated temperature according to EN 12900 at economiser inlet ($t_{cu} = t_{ms} + 5 \text{ K}$).

These values show the heat rejection (kW) from the system. For low temperature systems the total heat rejection may be split between condenser and oil coolers. See BITZER Software for details.



ASERCOM certified compressor data see BITZER Software.

Explanation of type designation

Example

HP 504 - L - HSN7471 - 300

HP—HyperPAC

HP 504 - L - HSN7471 - 300

Code for frame size: 4, 5 or 6

HP 504 - L - HSN7471 - 300

Number of compressors: 2..6

HP 504 - **L** - HSN7471 - 300

Application range: L - Low temperature, M - Medium temperature

HP 504 - L - **HSN7471** - 300

Compressor model

HP 504 - L - HSN7471 - **300**

Package total nominal motor horsepower

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type		Cond. temp. °C	Cooling capacity Qo [kW]								Heat Rejection HR [kW]							
			Evaporating temperature °C								Evaporating temperature °C							
		15	10	5	0	-5	-10	-15	-20	15	10	5	0	-5	-10	-15	-20	
2 x HSK5343-30 (HP402-M-HSK5343-60)		30				114.02	95.81	79.69	65.51	53.09				138.3	119.5	102.8	88.2	75.3
		40	176.04	151.42	129.29	109.48	91.85	76.22	62.42	50.31	207.5	182.2	159.5	139.2	121.1	105.1	91.0	78.6
		50	168.09	144.40	123.11	104.06	87.08	72.02	58.70	46.97	207.1	182.9	161.1	141.7	124.4	109.1	95.6	83.8
		60	158.97	136.30	115.94	97.72	81.49	67.08	0.00	0.00	208.3	185.2	164.5	146.0	129.6	115.1		
3 x HSK5343-30 (HP403-M-HSK5343-90)		30				171.03	143.71	119.54	98.26	79.64				207.4	179.2	154.2	132.2	112.9
		40	264.07	227.13	193.93	164.22	137.77	114.32	93.64	75.46	311.3	273.4	239.3	208.8	181.7	157.7	136.5	117.9
		50	252.13	216.60	184.66	156.09	130.62	108.03	88.06	70.46	310.7	274.3	241.7	212.5	186.6	163.7	143.5	125.7
		60	238.45	204.45	173.91	146.59	122.24	100.62	0.00	0.00	312.5	277.8	246.7	219.0	194.4	172.7		
4 x HSK5343-30 (HP404-M-HSK5343-120)		30				228.03	191.61	159.38	131.01	106.18				276.5	238.9	205.6	176.3	150.6
		40	352.09	302.84	258.57	218.97	183.70	152.43	124.85	100.62	415.0	364.5	319.0	278.4	242.3	210.3	182.0	157.3
		50	336.18	288.79	246.22	208.12	174.16	144.04	117.41	93.94	414.3	365.8	322.2	283.4	248.8	218.2	191.3	167.6
		60	317.94	272.60	231.87	195.45	162.99	134.17			416.7	370.4	328.9	292.0	259.2	230.2		
2 x HSK5353-35 (HP402-M-HSK5353-70)		30				136.17	114.39	95.17	78.31	63.61				164.1	141.6	121.8	104.5	89.4
		40	210.14	180.72	154.31	130.70	109.69	91.09	74.68	60.27	246.5	216.3	189.2	165.0	143.5	124.5	107.8	93.3
		50	199.87	171.85	146.68	124.15	104.07	86.22	70.42	56.45	244.6	216.0	190.3	167.3	146.9	128.9	113.0	99.2
		60	188.18	161.71	137.93	116.63	97.61	80.67			244.4	217.5	193.3	171.8	152.6	135.7		
3 x HSK5353-35 (HP403-M-HSK5353-105)		30				204.25	171.58	142.75	117.46	95.41				246.1	212.4	182.7	156.7	134.1
		40	315.21	271.08	231.46	196.05	164.54	136.63	112.02	90.41	369.7	324.5	283.8	247.5	215.2	186.7	161.7	139.9
		50	299.80	257.78	220.02	186.23	156.10	129.33	105.63	84.67	366.9	324.0	285.4	251.0	220.4	193.3	169.6	148.8
		60	282.27	242.57	206.89	174.94	146.41	121.00			366.6	326.2	290.0	257.7	229.0	203.6		
4 x HSK5353-35 (HP404-M-HSK5353-140)		30				272.34	228.77	190.33	156.61	127.22				328.2	283.2	243.6	208.9	178.8
		40	420.28	361.44	308.61	261.39	219.38	182.17	149.36	120.55	492.9	432.6	378.4	330.0	287.0	249.0	215.6	186.6
		50	399.74	343.71	293.36	248.31	208.14	172.45	140.83	112.90	489.2	432.0	380.6	334.7	293.9	257.8	226.1	198.4
		60	376.36	323.42	275.86	233.26	195.22	161.34			488.8	434.9	386.7	343.6	305.3	271.4		
2 x HSK5363-40 (HP402-M-HSK5363-80)		30				154.61	130.88	109.89	91.42	75.29				185.9	161.4	139.8	121.0	104.7
		40	237.30	205.03	175.95	149.86	126.56	105.85	87.53	71.38	278.3	245.1	215.3	188.6	164.9	143.9	125.5	109.6
		50	227.28	196.16	168.08	142.84	120.25	100.09	82.17	66.29	278.1	246.2	217.6	192.0	169.2	149.0	131.3	115.9
		60	214.40	184.70	157.89	133.77	112.15	92.81			278.2	247.9	220.7	196.4	174.7	155.6		
3 x HSK5363-40 (HP403-M-HSK5363-120)		30				231.92	196.33	164.83	137.14	112.94				278.8	242.1	209.8	181.5	157.0
		40	355.95	307.54	263.93	224.80	189.85	158.78	131.29	107.07	417.4	367.7	323.0	282.9	247.3	215.8	188.3	164.3
		50	340.93	294.24	252.12	214.26	180.37	150.13	123.25	99.43	417.1	369.4	326.4	288.0	253.7	223.5	197.0	173.9
		60	321.61	277.05	236.83	200.65	168.22	139.22			417.3	371.9	331.1	294.5	262.1	233.4		
4 x HSK5363-40 (HP404-M-HSK5363-160)		30				309.23	261.77	219.77	182.85	150.58				371.8	322.8	279.7	242.0	209.3
		40	474.60	410.06	351.90	299.73	253.13	211.70	175.05	142.77	556.5	490.3	430.7	377.3	329.8	287.8	251.0	219.1
		50	454.57	392.32	336.16	285.69	240.49	200.18	164.34	132.57	556.1	492.5	435.2	384.0	338.3	298.0	262.6	231.9
		60	428.81	369.39	315.77	267.54	224.29	185.63			556.4	495.9	441.4	392.7	349.4	311.2		
2 x HSK6451-50 (HP502-M-HSK6451-100)		30				181.62	152.06	126.02	103.21	83.37				215.0	185.4	159.3	136.4	116.3
		40	281.97	241.96	206.07	174.03	145.55	120.38	98.23	78.83	325.2	284.9	249.0	217.1	188.7	163.6	141.2	121.3
		50	267.84	229.78	195.63	165.11	137.95	113.87	92.61	73.89	323.1	285.1	251.2	220.8	193.7	169.5	147.7	128.0
		60	251.80	215.93	183.75	154.99	129.38	106.64			322.7	287.0	255.0	226.3	200.5	177.2		
3 x HSK6451-50 (HP503-M-HSK6451-150)		30				272.42	228.09	189.02	154.82	125.06				322.4	278.1	239.0	204.6	174.5
		40	422.96	362.95	309.11	261.04	218.33	180.56	147.34	118.24	487.8	427.4	373.6	325.7	283.1	245.4	211.9	182.0
		50	401.76	344.67	293.45	247.67	206.92	170.81	138.92	110.83	484.6	427.7	376.8	331.3	290.6	254.2	221.6	192.1
		60	377.71	323.90	275.63	232.49	194.07	159.95			484.0	430.5	382.5	339.5	300.7	265.8		
4 x HSK6451-50 (HP504-M-HSK6451-200)		30				363.23	304.12	252.03	206.42	166.75				429.9	370.7	318.7	272.9	232.6
		40	563.95	483.93	412.14	348.05	291.10	240.75	196.45	157.66	650.3	569.9	498.1	434.2	377.5	327.2	282.5	242.6
		50	535.68	459.56	391.26	330.22	275.90	227.75	185.22	147.78	646.2	570.3	502.4	441.7	387.5	339.0	295.4	256.1
		60	503.61	431.87	367.51	309.99	258.76	213.27			645.3	574.0	510.0	452.6	401.0	354.4		
2 x HSK6461-60 (HP502-M-HSK6461-120)		30				216.87	182.57	152.33	125.81	102.64				259.7	224.5	193.4	166.1	142.3
		40	333.65	286.84	244.91	207.53	174.34	144.97	119.08	96.32	390.0	341.9	298.9	260.6	226.6	196.5	170.0	146.7
		50	316.17	271.49	231.47	195.76	164.00	135.85	110.94	88.93	385.2	339.4	298.5	262.0	229.5	200.8	175.3	152.9
		60	295.42	253.21	215.44	181.74	151.76	125.16			380.6	337.4	298.9	264.5	233.9	206.8		
3 x HSK6461-60 (HP503-M-HSK6461-180)		30				325.31	273.86	228.50	188.71	153.95				389.6	336.7	290.1	249.2	213.5
		40	500.47	430.25	367.37	311.30	261.50	217.45	178.62	144.48	585.0	512.9	448.4	390.9	339.9	294.8	255.0	220.1
		50	474.25	407.23	347.21	293.64	246.01	203.77	166.41	133.39	577.7	509.1	447.7	392.9	344.3	301.1	263.0	229.3
		60	443.13	379.82	323.16	272.61	227.64	187.73			570.8	506.2	448.3	396.8	350.9	310.2		
4 x HSK6461-60 (HP504-M-HSK6461-240)		30				433.74	365.14	304.67	251.61	205.27				519.5	448.9	386.8	332.3	284.7
		40	667.30	573.67	489.83	415.07	348.67	289.94	238.16	192.64	780.0	683.9	597.9	521.2	453.2	393.0	340.0	293.5
		50	632.33	542.98	462.94	391.52	328.01	271.70	221.88	177.85	770.3	678.8	596.9	523.9	459.0	401.5	350.7	305.8
		60	590.83	506.42	430.87	363.48	303.52	250.31			761.1	674.9	597.8	529.0	467.9	413.7		
2 x HSK7451-70 (HP502-M-HSK7451-140)		30				265.18	220.71	181.91	148.23	119.11				313.7	269.5	231.2	198.0	168.9
		40	416.30	355.01	300.59	252.48	210.14	173.00	140.51	112.12	477.7	416						

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]								
		Evaporating temperature °C							Evaporating temperature °C								
		15	10	5	0	-5	-10	-15	-20	15	10	5	0	-5	-10	-15	-20
2 x HSK7461-80 (HP502-M-HSK7461-160)	30				298.91	249.55	206.40	168.87	136.36				352.3	302.7	259.5	221.7	188.7
	40	465.32	397.53	337.26	283.93	236.93	195.69	159.61	128.09	534.6	466.2	405.8	352.5	305.5	264.3	227.9	195.6
	50	437.06	373.40	316.82	266.72	222.50	183.58	149.37	119.27	525.1	461.3	404.8	354.8	310.6	271.4	236.5	205.0
	60	405.53	346.43	293.96	247.50	206.48	170.30			517.3	458.2	405.8	359.3	317.8	280.8		
3 x HSK7461-80 (HP503-M-HSK7461-240)	30				448.36	374.33	309.61	253.30	204.54				528.4	454.1	389.2	332.6	283.1
	40	697.99	596.30	505.89	425.89	355.40	293.54	239.41	192.14	802.0	699.4	608.7	528.7	458.3	396.4	341.8	293.4
	50	655.59	560.11	475.23	400.08	333.76	275.38	224.06	178.91	787.6	691.9	607.2	532.2	465.9	407.1	354.7	307.5
	60	608.29	519.65	440.93	371.25	309.72	255.46			776.0	687.3	608.7	538.9	476.8	421.2		
4 x HSK7461-80 (HP504-M-HSK7461-320)	30				597.81	499.10	412.81	337.74	272.72				704.6	605.5	518.9	443.5	377.5
	40	930.65	795.06	674.52	567.85	473.87	391.38	319.22	256.19	1069.3	932.5	811.5	704.9	611.1	528.5	455.7	391.2
	50	874.11	746.81	633.64	533.44	445.01	367.17	298.74	238.54	1050.1	922.6	809.6	709.7	621.2	542.8	472.9	410.0
	60	811.06	692.87	587.91	495.01	412.96	340.61			1034.6	916.5	811.6	718.5	635.7	561.6		
2 x HSK7471-90 (HP502-M-HSK7471-180)	30				325.53	273.31	227.59	187.71	153.02				388.2	334.5	287.4	246.4	210.8
	40	502.13	430.01	365.91	309.17	259.15	215.19	176.63	142.83	584.6	510.5	444.6	386.3	335.0	289.9	250.4	215.9
	50	471.33	403.26	342.77	289.21	241.92	200.26	163.57	131.18	571.7	501.8	439.7	384.8	336.4	293.9	256.5	223.6
	60	435.63	372.15	315.81	265.97	221.96	183.14			558.6	493.5	435.8	384.8	339.9	300.4		
3 x HSK7471-90 (HP503-M-HSK7471-270)	30				488.29	409.97	341.39	281.57	229.54				582.3	501.7	431.1	369.6	316.2
	40	753.20	645.02	548.86	463.76	388.73	322.79	264.95	214.24	876.9	765.7	666.9	579.5	502.5	434.9	375.7	323.9
	50	707.00	604.89	514.15	433.81	362.88	300.39	245.35	196.78	857.5	752.7	659.6	577.3	504.7	440.8	384.7	335.4
	60	653.45	558.22	473.72	398.95	332.94	274.71			837.9	740.2	653.7	577.2	509.9	450.6		
4 x HSK7471-90 (HP504-M-HSK7471-360)	30				651.05	546.62	455.18	375.43	306.05				776.4	668.9	574.8	492.8	421.5
	40	1004.27	860.02	731.82	618.35	518.31	430.38	353.27	285.66	1169.2	1021.0	889.2	772.7	670.0	579.8	500.9	431.8
	50	942.67	806.51	685.53	578.41	483.84	400.52	327.13	262.37	1143.4	1003.6	879.5	769.7	672.9	587.8	513.0	447.2
	60	871.27	744.30	631.62	531.93	443.92	366.28			1117.2	987.0	871.5	769.6	679.8	600.8		
2 x HSK8551-110 (HP602-M-HSK8551-220)	30				420.80	352.95	293.53	241.72	196.69				499.5	432.8	374.8	324.3	279.8
	40	652.27	557.78	473.75	399.35	333.76	276.14	225.68	181.55	750.5	656.7	574.4	502.3	438.9	383.0	333.1	288.0
	50	613.95	523.51	443.08	371.82	308.91	253.53	204.85	162.05	743.3	655.7	578.2	509.5	448.2	393.0	342.5	295.3
	60	567.90	481.94	405.53	337.84	278.05	225.34			744.2	661.4	587.4	520.8	460.3	404.4		
3 x HSK8551-110 (HP603-M-HSK8551-330)	30				631.20	529.42	440.29	362.57	295.03				749.3	649.2	562.2	486.4	419.8
	40	978.41	836.68	710.63	599.03	500.64	414.21	338.52	272.33	1125.7	985.1	861.6	753.4	658.4	574.5	499.7	432.0
	50	920.93	785.27	664.62	557.73	463.37	380.30	307.28	243.08	1115.0	983.6	867.3	764.3	672.4	589.5	513.7	442.9
	60	851.85	722.91	608.30	506.76	417.08	338.01			1116.3	992.1	881.1	781.2	690.4	606.6		
4 x HSK8551-110 (HP604-M-HSK8551-440)	30				841.60	705.90	587.06	483.43	393.38				999.1	865.5	749.6	648.6	559.7
	40	1304.54	1115.57	947.51	798.71	667.52	552.28	451.36	363.11	1501.0	1313.4	1148.8	1004.6	877.9	766.0	666.3	576.0
	50	1227.90	1047.03	886.16	743.64	617.82	507.06	409.71	324.10	1486.6	1311.4	1156.5	1019.1	896.5	786.0	685.0	590.6
	60	1135.80	963.88	811.06	675.69	556.11	450.68			1488.4	1322.8	1174.8	1041.6	920.5	808.8		
2 x HSK8561-125 (HP602-M-HSK8561-250)	30				469.79	393.61	327.31	269.86	220.23				556.7	480.9	415.1	358.0	308.3
	40	730.90	624.29	529.90	446.71	373.67	309.77	253.97	205.24	842.3	736.1	642.6	560.6	488.6	425.4	369.6	319.8
	50	683.52	583.27	494.49	416.15	347.23	286.69	233.50	186.64	828.8	730.3	643.3	566.4	498.3	437.6	382.9	333.0
	60	625.69	532.76	450.55	378.04	314.19	257.97			817.5	726.7	646.1	574.3	509.9	451.6		
3 x HSK8561-125 (HP603-M-HSK8561-375)	30				704.69	590.42	490.97	404.79	330.34				835.0	721.3	622.6	537.0	462.5
	40	1096.34	936.43	794.85	670.06	560.51	464.66	380.96	307.86	1263.5	1104.1	963.9	840.8	732.9	638.1	554.4	479.7
	50	1025.27	874.90	741.73	624.23	520.84	430.03	350.25	279.96	1243.2	1095.5	964.9	849.6	747.4	656.4	574.4	499.5
	60	938.53	799.13	675.82	567.06	471.28	386.96			1226.2	1090.1	969.2	861.4	764.9	677.5		
4 x HSK8561-125 (HP604-M-HSK8561-500)	30				939.59	787.22	654.62	539.72	440.46				1113.4	961.7	830.2	716.1	616.6
	40	1461.79	1248.58	1059.80	893.41	747.34	619.54	507.94	410.48	1684.7	1472.1	1285.2	1121.1	977.2	850.8	739.2	639.6
	50	1367.03	1166.53	988.97	832.30	694.46	573.38	467.00	373.28	1657.6	1460.6	1286.6	1132.8	996.6	875.1	765.8	666.0
	60	1251.37	1065.51	901.10	756.07	628.38	515.95			1635.0	1453.5	1292.2	1148.6	1019.8	903.3		
2 x HSK8571-140 (HP602-M-HSK8571-280)	30				527.54	444.77	372.31	309.14	254.26				624.7	540.7	467.3	403.5	348.1
	40	810.41	695.25	592.88	502.32	422.54	352.54	291.32	237.85	939.4	822.4	718.7	627.3	547.0	476.6	415.0	361.2
	50	761.42	652.10	555.06	469.29	393.79	327.54	269.54	218.77	923.0	813.0	715.7	629.9	554.4	488.2	430.1	379.0
	60	702.06	599.87	509.44	429.76	359.81	298.60			906.9	805.2	715.4	636.4	567.0	506.1		
3 x HSK8571-140 (HP603-M-HSK8571-420)	30				791.30	667.16	558.46	463.71	381.39				937.1	811.0	700.9	605.2	522.1
	40	1215.62	1042.87	889.33	753.48	633.81	528.82	436.97	356.78	1409.1	1233.6	1078.1	941.0	820.4	714.8	622.5	541.7
	50	1142.13	978.15	832.59	703.94	590.68	491.31	404.30	328.16	1384.5	1219.6	1073.6	944.8	831.6	732.3	645.1	568.4
	60	1053.09	899.81	764.16	644.64	539.72	447.90			1360.4	1207.8	1073.1	954.6	850.5	759.2		
4 x HSK8571-140 (HP604-M-HSK8571-560)	30				1055.07	889.54	744.62	618.28	508.52				1249.4	1081.3	934.6	806.9	696.2
	40	1620.83	1390.49	1185.77	1004.64	845.08	705.09	582.63	475.70	1878.8	1644.8	1437.5	1254.6	1093.9	953.1	830.0	722.3
	50	1522.83	1304.20	1110.12	938.58	787.58	655.08	539.07	437.54	1846.0	1626.1	1431.4	1259.8	1108.9	976.4	860.2	757.9
	60	1404.12	1199.75	1018.88	859.52	719.63	597.20			1813.8	1610.4	1430.8	1272.8	1134.0	1012.2		

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		10	5	0	-5	-10	-15	-20	10	5	0	-5	-10	-15	-20
2 x HSK5343-30 (HP402-M-HSK5343-60)	30	251.35	218.84	189.43	162.93	139.11	117.76	98.67	294.4	261.3	231.5	204.6	180.4	158.6	139.1
	40	236.31	205.77	178.13	153.18	130.71	110.49	92.32	289.5	258.7	230.7	205.5	182.6	161.9	143.1
	50	218.14	189.70	163.94	140.67	119.65	100.69	83.56	285.3	256.7	230.7	207.0	185.5	165.8	147.6
3 x HSK5343-30 (HP403-M-HSK5343-90)	30	377.02	328.25	284.15	244.40	208.67	176.65	148.01	441.7	392.0	347.2	306.8	270.6	238.0	208.6
	40	354.46	308.65	267.20	229.77	196.06	165.74	138.48	434.3	388.0	346.1	308.2	274.0	242.9	214.6
	50	327.22	284.55	245.92	211.00	179.48	151.03	125.34	428.0	385.0	346.0	310.6	278.2	248.7	221.4
4 x HSK5343-30 (HP404-M-HSK5343-120)	30	502.70	437.67	378.87	325.86	278.23	235.53	197.34	588.9	522.6	462.9	409.1	360.8	317.3	278.1
	40	472.61	411.54	356.26	306.37	261.41	220.98	184.64	579.0	517.3	461.5	411.0	365.3	323.9	286.2
	50	436.29	379.40	327.89	281.33	239.31	201.38	167.12	570.6	513.4	461.3	414.1	371.0	331.6	295.3
2 x HSK5353-35 (HP402-M-HSK5353-70)	30	292.03	254.63	220.77	190.19	162.65	137.90	115.71	341.7	303.8	269.4	238.3	210.3	185.1	162.5
	40	273.75	238.81	207.16	178.58	152.81	129.61	108.74	335.1	299.8	267.9	239.0	212.9	189.3	167.9
	50	252.41	220.04	190.75	164.28	140.41	118.89	99.47	329.7	297.3	267.8	241.2	217.0	195.0	175.0
3 x HSK5353-35 (HP403-M-HSK5353-105)	30	438.04	381.95	331.15	285.28	243.97	206.86	173.57	512.6	455.6	404.1	357.5	315.5	277.7	243.7
	40	410.63	358.21	310.75	267.87	229.22	194.42	163.12	502.6	449.8	401.9	358.5	319.4	283.9	251.9
	50	378.62	330.06	286.12	246.43	210.62	178.33	149.20	494.6	445.9	401.8	361.7	325.4	292.5	262.4
4 x HSK5353-35 (HP404-M-HSK5353-140)	30	584.05	509.27	441.54	380.37	325.29	275.81	231.43	683.4	607.5	538.8	476.6	420.7	370.3	325.0
	40	547.51	477.62	414.33	357.16	305.62	259.23	217.49	670.1	599.7	535.8	478.0	425.8	378.6	335.9
	50	504.83	440.08	381.49	328.57	280.82	237.77	198.93	659.4	594.6	535.7	482.3	433.9	389.9	349.9
2 x HSK5363-40 (HP402-M-HSK5363-80)	30	328.27	287.46	250.29	216.52	185.91	158.22	133.22	383.7	342.2	304.5	270.2	239.1	211.0	185.5
	40	309.69	271.10	235.93	203.96	174.93	148.62	124.78	378.2	339.3	303.8	271.5	242.0	215.3	190.9
	50	285.40	249.44	216.69	186.92	159.90	135.38	113.13	371.5	335.5	302.6	272.5	245.1	220.0	197.0
3 x HSK5363-40 (HP403-M-HSK5363-120)	30	492.40	431.19	375.44	324.78	278.87	237.33	199.83	575.6	513.4	456.7	405.3	358.6	316.4	278.3
	40	464.53	406.65	353.90	305.93	262.40	222.93	187.18	567.3	508.9	455.7	407.2	363.1	322.9	286.3
	50	428.10	374.16	325.03	280.38	239.85	203.07	169.69	557.2	503.2	453.9	408.8	367.7	330.0	295.5
4 x HSK5363-40 (HP404-M-HSK5363-160)	30	656.53	574.92	500.59	433.05	371.82	316.45	266.44	767.5	684.5	609.0	540.4	478.2	421.9	371.1
	40	619.38	542.19	471.86	407.91	349.86	297.24	249.57	756.4	678.6	607.6	542.9	484.1	430.5	381.7
	50	570.81	498.87	433.38	373.84	319.80	270.76	226.25	743.0	671.0	605.2	545.1	490.2	440.0	394.0
2 x HSK6451-50 (HP502-M-HSK6451-100)	30	400.23	348.43	301.61	259.41	221.47	187.43	156.93	459.7	407.7	360.8	318.7	280.9	246.9	216.4
	40	371.24	323.33	280.06	241.06	205.98	174.45	146.12	445.9	398.3	355.3	316.6	281.7	250.2	221.6
	50	336.01	292.41	253.09	217.69	185.87	157.25	131.48	430.0	387.1	348.3	313.2	281.5	252.5	226.0
3 x HSK6451-50 (HP503-M-HSK6451-150)	30	600.34	522.65	452.41	389.11	332.20	281.14	235.40	689.6	611.5	541.2	478.0	421.3	370.4	324.7
	40	556.86	485.00	420.09	361.60	308.97	261.68	219.18	668.9	597.4	533.0	475.0	422.6	375.3	332.4
	50	504.02	438.61	379.63	326.54	278.80	235.87	197.22	645.0	580.6	522.4	469.8	422.2	378.8	339.1
4 x HSK6451-50 (HP504-M-HSK6451-200)	30	800.46	696.86	603.22	518.82	442.94	374.86	313.86	919.5	815.3	721.6	637.3	561.7	493.9	432.9
	40	742.47	646.67	560.13	482.13	411.96	348.91	292.24	891.9	796.6	710.7	633.3	563.5	500.4	443.2
	50	672.03	584.82	506.17	435.39	371.73	314.50	262.97	860.1	774.1	696.6	626.5	562.9	505.1	452.1
2 x HSK6461-60 (HP502-M-HSK6461-120)	30	474.99	413.14	357.41	307.31	262.37	222.09	185.98	554.2	491.1	434.2	383.0	337.0	295.8	258.7
	40	441.98	384.41	332.54	285.89	243.99	206.32	172.42	538.8	480.4	427.6	380.1	337.2	298.5	263.5
	50	398.72	346.20	298.97	256.55	218.45	184.18	153.26	518.7	465.5	417.6	374.3	335.2	299.7	267.3
3 x HSK6461-60 (HP503-M-HSK6461-180)	30	712.49	619.71	536.11	460.97	393.55	333.13	278.97	831.3	736.6	651.3	574.5	505.5	443.6	388.0
	40	662.97	576.61	498.81	428.84	365.98	309.48	258.63	808.2	720.6	641.5	570.1	505.8	447.8	395.3
	50	598.08	519.29	448.45	384.82	327.67	276.27	229.89	778.0	698.3	626.4	561.5	502.8	449.6	401.0
4 x HSK6461-60 (HP504-M-HSK6461-240)	30	949.99	826.28	714.82	614.63	524.74	444.17	371.95	1108.4	982.2	868.3	766.0	674.0	591.5	517.4
	40	883.96	768.81	665.08	571.79	487.97	412.65	344.84	1077.6	960.8	855.3	760.2	674.5	597.1	527.0
	50	797.44	692.39	597.94	513.10	436.90	368.36	306.52	1037.3	931.1	835.2	748.6	670.4	599.4	534.7
2 x HSK7451-70 (HP502-M-HSK7451-140)	30	602.57	519.91	446.31	380.95	323.05	271.81	226.42	680.7	600.7	529.5	466.2	410.0	360.0	315.3
	40	550.64	475.27	408.22	348.67	295.85	248.94	207.15	654.0	581.4	516.8	459.4	408.1	362.3	321.0
	50	487.21	419.99	360.34	307.47	260.58	218.86	181.53	623.8	559.2	501.9	450.9	405.3	364.2	326.9
3 x HSK7451-70 (HP503-M-HSK7451-210)	30	903.86	779.87	669.46	571.43	484.58	407.71	339.64	1021.1	901.1	794.2	699.4	615.1	540.0	473.0
	40	825.97	712.91	612.32	523.01	443.77	373.41	310.73	981.0	872.1	775.2	689.0	612.2	543.5	481.4
	50	730.82	629.99	540.51	461.21	390.87	328.30	272.30	935.7	838.8	752.8	676.3	607.9	546.3	490.3
4 x HSK7451-70 (HP504-M-HSK7451-280)	30	1205.15	1039.83	892.61	761.90	646.10	543.62	452.85	1361.5	1201.4	1059.0	932.5	820.1	720.1	630.7
	40	1101.29	950.55	816.43	697.35	591.69	497.88	414.30	1308.0	1162.8	1033.6	918.7	816.3	724.6	641.9
	50	974.43	839.98	720.69	614.94	521.16	437.73	363.07	1247.5	1118.5	1003.8	901.7	810.5	728.4	653.7

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Q _o [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		-15	-20	-25	-30	-35	-40	-45	-15	-20	-25	-30	-35	-40	-45
2 x HSN5343-20 (HP402-L-HSN5343-40)	30	117.29	98.91	82.53	68.02	55.24	44.06	34.33	161.4	141.8	124.2	108.3	94.1	81.3	69.8
	40	111.00	93.29	77.49	63.46	51.08	40.19	24.89	166.9	147.6	130.1	114.1	99.4	86.0	67.8
	50			70.41	56.85	44.84	34.23				137.2	120.6	105.1	90.5	
3 x HSN5343-20 (HP403-L-HSN5343-60)	30	175.94	148.37	123.80	102.04	82.87	66.09	51.50	242.2	212.7	186.3	162.5	141.2	122.0	104.7
	40	166.50	139.93	116.23	95.20	76.62	60.29	37.34	250.3	221.4	195.1	171.1	149.2	129.0	101.7
	50			105.62	85.28	67.25	51.34				205.8	180.9	157.6	135.7	
4 x HSN5343-20 (HP404-L-HSN5343-80)	30	234.58	197.82	165.07	136.05	110.49	88.12	68.66	322.9	283.6	248.4	216.7	188.2	162.7	139.6
	40	222.00	186.58	154.98	126.93	102.16	80.38	49.78	333.8	295.2	260.1	228.1	198.9	172.0	135.5
	50			140.83	113.71	89.67	68.45				274.4	241.2	210.1	181.0	
2 x HSN5353-25 (HP402-L-HSN5353-50)	30	136.90	115.50	96.44	79.56	64.70	51.69	40.38	187.6	164.6	143.9	125.3	108.7	93.8	80.5
	40	129.39	108.91	90.65	74.44	60.12	47.54	30.42	192.9	170.5	150.2	131.8	115.0	99.6	79.3
	50			82.51	67.00	53.25	41.11				157.8	139.1	121.6	105.3	
3 x HSN5353-25 (HP403-L-HSN5353-75)	30	205.35	173.25	144.66	119.34	97.04	77.54	60.57	281.5	246.9	215.8	188.0	163.1	140.8	120.8
	40	194.08	163.36	135.97	111.66	90.19	71.31	45.62	289.4	255.8	225.3	197.7	172.4	149.4	119.0
	50			123.77	100.50	79.87	61.66				236.8	208.6	182.5	158.0	
4 x HSN5353-25 (HP404-L-HSN5353-100)	30	273.80	231.00	192.88	159.12	129.39	103.38	80.77	375.3	329.1	287.7	250.6	217.4	187.7	161.0
	40	258.77	217.82	181.29	148.88	120.25	95.09	60.83	385.8	341.1	300.4	263.5	229.9	199.2	158.7
	50			165.03	134.00	106.50	82.22				315.7	278.1	243.3	210.7	
2 x HSN5363-30 (HP402-L-HSN5363-60)	30	156.27	132.01	110.40	91.26	74.40	59.65	46.80	213.6	187.3	163.6	142.4	123.5	106.6	91.5
	40	147.80	124.74	104.19	85.97	69.88	55.75	38.00	220.0	194.7	171.7	150.8	131.9	114.8	93.8
	50			95.36	78.21	63.06	49.72				181.7	160.9	141.9	124.3	
3 x HSN5363-30 (HP403-L-HSN5363-90)	30	234.41	198.01	165.60	136.89	111.61	89.47	70.20	320.4	280.9	245.5	213.7	185.2	159.9	137.2
	40	221.70	187.11	156.28	128.95	104.82	83.63	57.00	330.0	292.0	257.5	226.2	197.9	172.2	140.7
	50			143.04	117.32	94.59	74.58				272.5	241.4	212.8	186.4	
4 x HSN5363-30 (HP404-L-HSN5363-120)	30	312.55	264.02	220.80	182.52	148.81	119.29	93.60	427.2	374.6	327.3	284.9	247.0	213.2	183.0
	40	295.59	249.47	208.38	171.93	139.76	111.51	76.00	440.1	389.3	343.3	301.6	263.9	229.6	187.6
	50			190.72	156.43	126.12	99.44				363.4	321.9	283.7	248.5	
2 x HSN6451-40 (HP502-L-HSN6451-80)	30	188.68	159.13	132.83	109.51	88.94	70.86	55.04	253.3	221.4	192.9	167.2	144.3	123.8	105.3
	40	178.09	150.07	125.16	103.11	83.68	66.61	45.82	257.8	227.5	200.1	175.4	153.2	133.1	109.0
	50			113.55	93.14	75.21	59.52				208.2	184.6	163.1	143.5	
3 x HSN6451-40 (HP503-L-HSN6451-120)	30	283.02	238.70	199.24	164.26	133.40	106.29	82.56	379.9	332.2	289.3	250.9	216.5	185.6	158.0
	40	267.13	225.11	187.74	154.67	125.51	99.91	68.73	386.7	341.2	300.1	263.1	229.8	199.6	163.5
	50			170.33	139.71	112.82	89.28				312.4	276.9	244.7	215.3	
4 x HSN6451-40 (HP504-L-HSN6451-160)	30	377.36	318.27	265.65	219.02	177.87	141.73	110.08	506.5	442.9	385.7	334.5	288.6	247.5	210.7
	40	356.17	300.14	250.32	206.22	167.35	133.22	91.64	515.6	454.9	400.2	350.8	306.3	266.1	218.0
	50			227.11	186.28	150.42	119.04				416.5	369.2	326.3	287.1	
2 x HSN6461-50 (HP502-L-HSN6461-100)	30	216.90	183.02	152.98	126.46	103.16	82.80	65.05	296.3	259.4	226.1	196.2	169.5	145.6	124.4
	40	202.41	170.92	143.00	118.34	96.65	77.62	53.86	299.8	264.5	232.7	204.1	178.4	155.2	127.4
	50			128.63	106.19	86.45	69.11				240.5	213.3	188.8	166.6	
3 x HSN6461-50 (HP503-L-HSN6461-150)	30	325.35	274.53	229.46	189.69	154.75	124.19	97.57	444.4	389.0	339.1	294.3	254.2	218.4	186.5
	40	303.62	256.38	214.50	177.51	144.97	116.43	80.80	449.6	396.8	349.1	306.2	267.5	232.9	191.2
	50			192.94	159.28	129.67	103.66				360.7	319.9	283.1	249.9	
4 x HSN6461-50 (HP504-L-HSN6461-200)	30	433.80	366.05	305.95	252.91	206.33	165.59	130.10	592.5	518.7	452.2	392.4	338.9	291.2	248.7
	40	404.83	341.84	285.99	236.68	193.30	155.23	107.73	599.5	529.1	465.5	408.2	356.7	310.5	254.9
	50			257.26	212.37	172.89	138.21				481.0	426.6	377.5	333.3	
2 x HSN7451-60 (HP502-L-HSN7451-120)	30	271.43	227.50	188.76	154.76	125.04	99.14	76.60	365.6	316.9	274.7	237.9	205.7	177.3	151.8
	40	249.17	208.95	173.51	142.40	115.17	91.35	62.12	363.8	319.4	280.6	246.7	216.7	189.8	156.8
	50			153.06	125.58	101.57	80.57				287.8	257.1	229.7	204.7	
3 x HSN7451-60 (HP503-L-HSN7451-180)	30	407.14	341.25	283.15	232.15	187.56	148.71	114.90	548.3	475.4	412.0	356.8	308.6	266.0	227.7
	40	373.76	313.42	260.27	213.60	172.75	137.02	93.18	545.8	479.1	421.0	370.0	325.1	284.7	235.1
	50			229.60	188.37	152.35	120.85				431.7	385.7	344.5	307.0	
4 x HSN7451-60 (HP504-L-HSN7451-240)	30	542.85	455.00	377.53	309.53	250.08	198.27	153.20	731.1	633.9	549.3	475.8	411.5	354.6	303.6
	40	498.35	417.90	347.02	284.81	230.34	182.70	124.24	727.7	638.8	561.3	493.4	433.4	379.6	313.5
	50			306.13	251.16	203.13	161.13				575.6	514.2	459.3	409.3	



PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		10	5	0	-5	-10	-15	-20	10	5	0	-5	-10	-15	-20
2 x HSK7461-80 (HP502-M-HSK7461-160)	30	663.94	574.07	493.84	422.40	358.94	302.62	252.63	761.0	670.5	589.9	518.3	454.8	398.4	348.2
	40	606.32	524.39	451.39	386.48	328.83	277.63	232.04	728.0	646.1	573.2	508.4	450.8	399.4	353.3
	50	538.19	464.98	399.99	342.39	291.34	246.03	205.63	691.5	618.9	554.3	497.0	445.9	400.2	358.8
3 x HSK7461-80 (HP503-M-HSK7461-240)	30	995.91	861.11	740.76	633.60	538.40	453.93	378.95	1141.5	1005.7	884.8	777.4	682.1	597.6	522.3
	40	909.48	786.59	677.08	579.71	493.25	416.44	348.06	1092.1	969.2	859.9	762.7	676.2	599.1	529.9
	50	807.28	697.48	599.99	513.58	437.01	369.05	308.45	1037.2	928.3	831.5	745.5	668.9	600.3	538.2
4 x HSK7461-80 (HP504-M-HSK7461-320)	30	1327.88	1148.15	987.67	844.80	717.87	605.25	505.27	1522.0	1341.0	1179.8	1036.6	909.5	796.8	696.4
	40	1212.64	1048.79	902.78	772.95	657.66	555.26	464.08	1456.1	1292.3	1146.5	1016.9	901.6	798.8	706.5
	50	1076.37	929.97	799.98	684.77	582.69	492.07	411.27	1382.9	1237.7	1108.7	994.0	891.9	800.3	717.6
2 x HSK7471-90 (HP502-M-HSK7471-180)	30	718.04	620.98	534.37	457.30	388.84	328.04	273.99	834.4	735.1	646.4	567.3	496.9	434.3	378.6
	40	659.52	570.22	490.65	419.88	356.98	301.03	251.09	800.9	709.7	628.3	555.6	490.9	433.1	381.5
	50	585.60	505.33	434.06	370.86	314.81	264.96	220.40	758.8	677.0	604.0	539.1	481.2	429.5	383.0
3 x HSK7471-90 (HP503-M-HSK7471-270)	30	1077.06	931.47	801.56	685.96	583.25	492.06	410.99	1251.6	1102.7	969.6	850.9	745.3	651.4	567.9
	40	989.28	855.33	735.97	629.82	535.48	451.55	376.63	1201.4	1064.6	942.4	833.5	736.3	649.7	572.2
	50	878.39	757.99	651.09	556.30	472.21	397.45	330.60	1138.2	1015.4	906.0	808.6	721.8	644.3	574.6
4 x HSK7471-90 (HP504-M-HSK7471-360)	30	1436.08	1241.95	1068.75	914.61	777.67	656.08	547.98	1668.8	1470.2	1292.7	1134.5	993.7	868.6	757.2
	40	1319.04	1140.44	981.30	839.76	713.97	602.06	502.18	1601.8	1419.5	1256.6	1111.3	981.8	866.3	762.9
	50	1171.19	1010.66	868.12	741.73	629.62	529.93	440.81	1517.6	1353.9	1208.1	1078.2	962.4	859.0	766.1
2 x HSK8551-110 (HP602-M-HSK8551-220)	30	922.32	797.24	685.34	585.61	497.00	418.50	349.08	1060.4	935.1	823.3	723.9	635.8	557.7	488.5
	40	853.08	735.80	631.04	537.77	454.97	381.60	316.64	1026.5	910.9	807.9	716.1	634.5	561.9	497.1
	50	771.23	662.17	564.95	478.56	401.96	334.13	274.05	994.9	889.7	795.8	712.2	637.6	571.0	511.0
3 x HSK8551-110 (HP603-M-HSK8551-330)	30	1383.48	1195.86	1028.01	878.41	745.51	627.75	523.62	1590.6	1402.6	1235.0	1085.9	953.7	836.6	732.8
	40	1279.62	1103.70	946.56	806.66	682.45	572.40	474.96	1539.7	1366.4	1211.8	1074.2	951.7	842.8	745.6
	50	1156.85	993.25	847.42	717.83	602.94	501.20	411.07	1492.4	1334.5	1193.7	1068.2	956.4	856.4	766.6
4 x HSK8551-110 (HP604-M-HSK8551-440)	30	1844.64	1594.48	1370.69	1171.22	994.01	837.01	698.16	2120.8	1870.2	1646.7	1447.9	1271.6	1115.4	977.0
	40	1706.15	1471.60	1262.08	1075.54	909.93	763.20	633.28	2053.0	1821.9	1615.7	1432.2	1269.0	1123.8	994.2
	50	1542.47	1324.33	1129.90	957.11	803.92	668.26	548.09	1989.9	1779.3	1591.6	1424.3	1275.2	1141.9	1022.1
2 x HSK8561-125 (HP602-M-HSK8561-250)	30	1027.86	887.63	762.74	651.87	553.68	466.88	390.14	1187.2	1045.2	919.2	807.6	709.2	622.4	545.8
	40	945.15	813.55	696.88	593.82	503.04	423.24	353.09	1141.6	1010.3	894.3	792.2	702.3	623.4	554.0
	50	840.31	719.74	613.70	520.86	439.90	369.50	308.36	1089.3	971.6	868.5	778.5	700.1	631.9	572.5
3 x HSK8561-125 (HP603-M-HSK8561-375)	30	1541.78	1331.45	1144.11	977.80	830.53	700.32	585.21	1780.7	1567.8	1378.7	1211.5	1063.8	933.6	818.6
	40	1417.72	1220.33	1045.32	890.72	754.56	634.86	529.64	1712.4	1515.5	1341.5	1188.2	1053.5	935.1	831.0
	50	1260.46	1079.62	920.55	781.28	659.85	554.26	462.54	1633.9	1457.4	1302.7	1167.7	1050.1	947.9	858.7
4 x HSK8561-125 (HP604-M-HSK8561-500)	30	2055.71	1775.27	1525.49	1303.73	1107.37	933.76	780.28	2374.3	2090.3	1838.3	1615.3	1418.4	1244.8	1091.5
	40	1890.30	1627.10	1393.76	1187.63	1006.08	846.48	706.18	2283.2	2020.7	1788.7	1584.3	1404.7	1246.9	1108.0
	50	1680.62	1439.49	1227.40	1041.71	879.79	739.01	616.72	2178.5	1943.2	1737.0	1556.9	1400.2	1263.8	1145.0
2 x HSK8571-140 (HP602-M-HSK8571-280)	30	1125.12	975.15	840.90	721.16	614.67	520.21	436.54	1305.7	1151.8	1014.6	892.7	784.8	689.6	605.6
	40	1035.57	894.95	769.62	658.34	559.88	473.00	396.46	1254.2	1111.9	985.5	873.7	775.2	688.6	612.6
	50	922.35	793.67	679.83	579.61	491.75	415.03	348.20	1194.5	1066.7	954.2	855.4	769.2	694.3	629.2
3 x HSK8571-140 (HP603-M-HSK8571-420)	30	1687.68	1462.72	1261.36	1081.74	922.01	780.32	654.80	1958.5	1727.8	1522.0	1339.1	1177.3	1034.4	908.5
	40	1553.35	1342.42	1154.43	987.51	839.82	709.50	594.68	1881.3	1667.8	1478.3	1310.6	1162.8	1032.9	918.9
	50	1383.53	1190.50	1019.75	869.41	737.62	622.54	522.30	1791.8	1600.1	1431.2	1283.1	1153.9	1041.4	943.8
4 x HSK8571-140 (HP604-M-HSK8571-560)	30	2250.25	1950.29	1681.81	1442.32	1229.35	1040.42	873.07	2611.3	2303.7	2029.3	1785.5	1569.7	1379.1	1211.3
	40	2071.14	1789.90	1539.24	1316.68	1119.76	945.99	792.91	2508.3	2223.8	1971.0	1747.5	1550.4	1377.2	1225.2
	50	1844.70	1587.34	1359.67	1159.21	983.50	830.05	696.40	2389.0	2133.5	1908.3	1710.9	1538.5	1388.5	1258.3

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		-15	-20	-25	-30	-35	-40	-45	-15	-20	-25	-30	-35	-40	-45
2 x HSN7461-70 (HP502-L-HSN7461-140)	30	303.34	255.08	212.49	175.05	142.26	113.61	88.59	404.9	352.7	306.3	265.3	228.9	196.6	167.8
	40	281.36	236.56	197.08	162.43	132.10	105.57	72.49	404.6	355.9	312.6	274.1	239.7	208.9	171.3
	50	252.07	211.33	175.60	144.35	117.09	93.30		404.6	359.8	319.8	284.0	252.0	223.0	
3 x HSN7461-70 (HP503-L-HSN7461-210)	30	455.01	382.62	318.73	262.57	213.39	170.41	132.89	607.3	529.0	459.5	397.9	343.3	294.9	251.7
	40	422.05	354.83	295.62	243.64	198.14	158.35	108.73	606.9	533.9	468.9	411.1	359.6	313.4	257.0
	50	378.11	317.00	263.39	216.53	175.63	139.96		606.9	539.6	479.7	426.1	378.0	334.6	
4 x HSN7461-70 (HP504-L-HSN7461-280)	30	606.69	510.16	424.97	350.09	284.51	227.22	177.19	809.8	705.4	612.7	530.5	457.8	393.2	335.6
	40	562.73	473.11	394.16	324.86	264.19	211.14	144.97	809.2	711.8	625.2	548.1	479.4	417.9	342.6
	50	504.14	422.67	351.19	288.70	234.18	186.61		809.2	719.5	639.5	568.1	504.0	446.1	
2 x HSN7471-75 (HP502-L-HSN7471-150)	30	319.46	268.75	224.13	185.04	150.94	121.28	95.52	433.8	378.4	328.9	284.9	245.9	211.3	180.7
	40	293.99	247.61	206.82	171.09	139.87	112.61	77.94	432.5	380.6	334.2	292.8	256.0	223.2	183.2
	50	261.26	219.73	183.32	151.49	123.67	99.34		431.6	383.6	340.7	302.4	268.2	237.7	
3 x HSN7471-75 (HP503-L-HSN7471-225)	30	479.19	403.12	336.19	277.56	226.41	181.92	143.29	650.7	567.6	493.4	427.4	368.9	317.0	271.1
	40	440.99	371.41	310.24	256.64	209.80	168.91	116.91	648.8	570.9	501.3	439.2	384.0	334.8	274.8
	50	391.89	329.60	274.99	227.23	185.51	149.01		647.4	575.4	511.0	453.5	402.3	356.5	
4 x HSN7471-75 (HP504-L-HSN7471-300)	30	638.91	537.50	448.25	370.07	301.88	242.57	191.05	867.6	756.8	657.9	569.9	491.8	422.7	361.5
	40	587.99	495.22	413.65	342.19	279.74	225.21	155.88	865.1	761.2	668.3	585.6	512.0	446.4	366.3
	50	522.52	439.47	366.65	302.97	247.35	198.68		863.2	767.1	681.3	604.7	536.4	475.3	
2 x HSN8571-125 (HP602-L-HSN8571-250)	30	520.75	438.80	366.87	304.06	249.45	202.15	161.23	704.5	611.3	529.2	457.3	394.8	340.9	294.7
	40	476.14	400.20	333.60	275.44	224.79	180.76	116.99	690.0	603.0	526.2	458.7	399.6	348.2	278.0
	50		351.64	291.04	238.18	192.16	152.06			593.8	522.2	458.9	403.2	354.2	
3 x HSN8571-125 (HP603-L-HSN8571-375)	30	781.13	658.20	550.30	456.09	374.18	303.22	241.85	1056.7	916.9	793.8	686.0	592.3	511.4	442.1
	40	714.21	600.30	500.41	413.15	337.19	271.13	175.48	1035.0	904.5	789.3	688.0	599.4	522.3	417.1
	50		527.46	436.55	357.27	288.24	228.10			890.7	783.3	688.4	604.8	531.2	
4 x HSN8571-125 (HP604-L-HSN8571-500)	30	1041.51	877.60	733.74	608.12	498.91	404.30	322.46	1409.0	1222.6	1058.3	914.6	789.7	681.9	589.4
	40	952.28	800.41	667.21	550.87	449.58	361.51	233.97	1380.0	1206.0	1052.4	917.4	799.3	696.4	556.1
	50		703.27	582.07	476.36	384.32	304.13			1187.5	1044.4	917.9	806.4	708.3	
2 x HSN8591-160 (HP602-L-HSN8591-320)	30	667.40	559.60	465.60	383.80	313.20	252.00	199.60	888.3	770.4	667.9	578.4	500.5	432.0	371.7
	40	604.40	507.40	422.40	348.40	283.60	227.20	178.00	872.1	765.8	672.2	589.6	515.8	449.6	389.4
	50		446.20	371.20	305.00	246.40	194.40			774.9	689.2	610.9	538.6	471.3	
3 x HSN8591-160 (HP603-L-HSN8591-480)	30	1001.10	839.40	698.40	575.70	469.80	378.00	299.40	1332.5	1155.6	1001.8	867.6	750.8	648.0	557.5
	40	906.60	761.10	633.60	522.60	425.40	340.80	267.00	1308.2	1148.8	1008.3	884.4	773.7	674.3	584.1
	50		669.30	556.80	457.50	369.60	291.60			1162.4	1033.8	916.3	808.0	707.0	
4 x HSN8591-160 (HP504-L-HSN8591-640)	30	1334.80	1119.20	931.20	767.60	626.40	504.00	399.20	1776.7	1540.8	1335.7	1156.8	1001.1	864.0	743.4
	40	1208.80	1014.80	844.80	696.80	567.20	454.40	356.00	1744.2	1531.7	1344.4	1179.3	1031.6	899.1	778.7
	50		892.40	742.40	610.00	492.80	388.80			1549.9	1378.3	1221.7	1077.3	942.7	

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		10	5	0	-5	-10	-15	-20	10	5	0	-5	-10	-15	-20
2 x HSK5343-30 (HP402-M-HSK5343-60)	30	231.47	201.53	174.30	149.65	127.45	107.55	89.82	263.1	233.8	207.3	183.2	161.5	142.0	124.5
	40	223.80	194.40	167.63	143.34	121.42	101.71	84.09	265.3	236.6	210.5	186.8	165.3	145.8	128.3
	50	212.05	183.17	156.83	132.89	111.22	91.69	74.15	265.0	237.0	211.4	188.1	166.8	147.5	129.9
3 x HSK5343-30 (HP403-M-HSK5343-90)	30	347.21	302.29	261.45	224.48	191.17	161.32	134.73	394.6	350.8	310.9	274.9	242.3	213.0	186.8
	40	335.70	291.60	251.44	215.01	182.12	152.56	126.14	397.9	355.0	315.8	280.2	248.0	218.8	192.4
	50	318.07	274.75	235.24	199.33	166.83	137.53	111.23	397.5	355.5	317.1	282.1	250.2	221.2	194.8
4 x HSK5343-30 (HP404-M-HSK5343-120)	30	462.94	403.06	348.60	299.31	254.89	215.10	179.65	526.1	467.7	414.6	366.5	323.1	284.0	249.0
	40	447.60	388.80	335.25	286.69	242.83	203.42	168.18	530.5	473.3	421.1	373.6	330.6	291.7	256.5
	50	424.10	366.34	313.65	265.78	222.44	183.37	148.30	530.0	474.0	422.8	376.2	333.6	294.9	259.7
2 x HSK5353-35 (HP402-M-HSK5353-70)	30	269.22	234.51	202.85	174.10	148.11	124.73	103.80	309.8	274.2	242.1	213.2	187.3	163.9	142.9
	40	258.21	224.31	193.42	165.41	140.12	117.41	97.11	307.7	273.3	242.3	214.4	189.3	166.6	146.2
	50	244.58	211.42	181.25	153.91	129.26	107.14	87.40	305.2	272.1	242.2	215.3	191.0	169.0	149.1
3 x HSK5353-35 (HP403-M-HSK5353-105)	30	403.84	351.76	304.27	261.15	222.16	187.09	155.70	464.7	411.2	363.1	319.8	280.9	245.9	214.3
	40	387.32	336.46	290.13	248.12	210.19	176.11	145.67	461.5	409.9	363.4	321.6	283.9	250.0	219.2
	50	366.86	317.13	271.87	230.86	193.88	160.70	131.10	457.9	408.2	363.3	322.9	286.5	253.6	223.7
4 x HSK5353-35 (HP404-M-HSK5353-140)	30	538.45	469.01	405.69	348.19	296.21	249.45	207.60	619.5	548.3	484.1	426.4	374.5	327.9	285.8
	40	516.42	448.61	386.85	330.83	280.25	234.81	194.22	615.3	546.6	484.6	428.8	378.6	333.3	292.3
	50	489.15	422.84	362.49	307.82	258.51	214.27	174.80	610.5	544.2	484.5	430.6	382.0	338.1	298.2
2 x HSK5363-40 (HP402-M-HSK5363-80)	30	306.56	268.76	234.03	202.24	173.23	146.86	122.97	357.8	319.0	283.3	250.6	220.7	193.6	168.9
	40	296.42	259.20	224.97	193.60	164.93	138.81	115.10	357.7	319.6	284.6	252.4	223.1	196.3	171.9
	50	282.44	245.94	212.37	181.57	153.40	127.70	104.33	356.4	319.3	285.2	253.9	225.2	199.1	175.3
3 x HSK5363-40 (HP403-M-HSK5363-120)	30	459.84	403.13	351.05	303.36	259.85	220.29	184.45	536.7	478.5	424.9	375.9	331.1	290.3	253.4
	40	444.64	388.79	337.45	290.39	247.39	208.22	172.65	536.6	479.4	426.9	378.7	334.6	294.4	257.9
	50	423.65	368.91	318.55	272.36	230.10	191.55	156.50	534.7	479.0	427.8	380.8	337.8	298.6	262.9
4 x HSK5363-40 (HP404-M-HSK5363-160)	30	613.12	537.51	468.07	404.49	346.47	293.72	245.93	715.6	637.9	566.6	501.2	441.5	387.1	337.8
	40	592.85	518.39	449.94	387.19	329.85	277.62	230.20	715.5	639.3	569.2	504.9	446.1	392.5	343.8
	50	564.87	491.88	424.74	363.14	306.80	255.40	208.66	712.9	638.7	570.4	507.8	450.4	398.1	350.5
2 x HSK6451-50 (HP502-M-HSK6451-100)	30	358.39	312.18	269.98	231.62	196.90	165.65	137.70	413.7	365.9	322.8	284.0	249.1	217.8	189.7
	40	343.04	298.01	256.95	219.66	185.96	155.69	128.66	409.6	363.6	322.1	284.8	251.3	221.1	193.8
	50	324.04	280.15	240.16	203.90	171.18	141.83	115.67	404.8	360.8	321.1	285.3	253.1	224.1	197.8
3 x HSK6451-50 (HP503-M-HSK6451-150)	30	537.58	468.27	404.97	347.42	295.35	248.48	206.55	620.6	548.8	484.1	426.0	373.7	326.8	284.5
	40	514.56	447.02	385.42	329.48	278.95	233.54	192.99	614.3	545.3	483.2	427.2	376.9	331.6	290.7
	50	486.06	420.22	360.24	305.84	256.77	212.75	173.51	607.3	541.2	481.6	428.0	379.7	336.1	296.7
4 x HSK6451-50 (HP504-M-HSK6451-200)	30	716.78	624.36	539.97	463.23	393.80	331.31	275.40	827.4	731.7	645.5	568.0	498.3	435.7	379.3
	40	686.08	596.03	513.89	439.31	371.93	311.38	257.32	819.1	727.1	644.2	569.6	502.5	442.1	387.6
	50	648.08	560.29	480.32	407.79	342.36	283.67	231.35	809.7	721.5	642.1	570.6	506.2	448.1	395.6
2 x HSK6461-60 (HP502-M-HSK6461-120)	30	423.17	369.61	320.67	276.09	235.61	198.98	165.92	494.6	439.4	388.8	342.6	300.6	262.6	228.2
	40	407.58	355.13	307.17	263.44	223.66	187.59	154.97	492.6	438.5	389.1	343.9	302.8	265.5	231.8
	50	386.50	335.46	288.75	246.13	207.34	172.11	140.19	488.5	436.1	388.3	344.6	304.8	268.8	236.1
3 x HSK6461-60 (HP503-M-HSK6461-180)	30	634.75	554.41	481.00	414.14	353.42	298.47	248.89	742.0	659.0	583.2	513.9	450.9	393.9	342.3
	40	611.36	532.70	460.76	395.16	335.50	281.39	232.45	738.8	657.8	583.6	515.9	454.3	398.3	347.7
	50	579.76	503.18	433.13	369.20	311.01	258.17	210.28	732.7	654.2	582.4	516.9	457.3	403.1	354.2
4 x HSK6461-60 (HP504-M-HSK6461-240)	30	846.34	739.21	641.34	552.18	471.23	397.96	331.85	989.3	878.7	777.5	685.2	601.3	525.2	456.4
	40	815.15	710.26	614.35	526.87	447.33	375.19	309.93	985.1	877.1	778.2	687.9	605.7	531.1	463.6
	50	773.01	670.91	577.50	492.27	414.68	344.23	280.38	976.9	872.3	776.5	689.2	609.7	537.5	472.2
2 x HSK7451-70 (HP502-M-HSK7451-140)	30	541.63	469.56	404.52	346.07	293.77	247.18	205.86	614.0	542.9	478.9	421.4	369.9	323.9	282.8
	40	518.27	448.52	385.49	328.73	277.81	232.28	191.71	611.7	543.0	481.0	425.2	374.9	329.9	289.5
	50	485.40	418.10	357.20	302.26	252.84	208.50	168.80	602.7	536.9	477.4	423.7	375.3	331.7	292.4
3 x HSK7451-70 (HP503-M-HSK7451-210)	30	812.45	704.34	606.78	519.10	440.65	370.77	308.79	921.0	814.4	718.4	632.1	554.8	485.8	424.2
	40	777.41	672.78	578.23	493.10	416.72	348.43	287.57	917.5	814.5	721.5	637.7	562.4	494.8	434.2
	50	728.10	627.15	535.80	453.39	379.26	312.76	253.21	904.1	805.4	716.2	635.6	563.0	497.6	438.5
4 x HSK7451-70 (HP504-M-HSK7451-280)	30	1083.26	939.12	809.04	692.14	587.54	494.36	411.72	1227.9	1085.9	957.8	842.8	739.7	647.7	565.6
	40	1036.55	897.05	770.98	657.46	555.62	464.57	383.42	1223.3	1086.0	962.0	850.3	749.9	659.8	578.9
	50	970.80	836.20	714.40	604.52	505.69	417.01	337.61	1205.5	1073.9	954.9	847.5	750.7	663.4	584.7

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		-15	-20	-25	-30	-35	-40	-45	-15	-20	-25	-30	-35	-40	-45
2 x HSN5343-20 (HP402-L-HSN5343-40)	30	106.30	88.93	73.52	59.93	48.03	37.68	28.75	142.1	122.8	105.7	90.6	77.3	65.7	55.6
	40	101.36	84.56	69.64	56.49	44.96	34.92	22.37	144.8	126.3	109.7	95.0	82.0	70.3	56.1
	50			64.28	51.60	40.47	30.77				113.9	99.3	86.2	74.3	
3 x HSN5343-20 (HP403-L-HSN5343-60)	30	159.45	133.40	110.28	89.90	72.04	56.52	43.12	213.1	184.1	158.5	135.9	116.0	98.6	83.4
	40	152.04	126.83	104.47	84.74	67.44	52.38	33.55	217.2	189.4	164.6	142.5	122.9	105.5	84.2
	50			96.42	77.39	60.71	46.16				170.8	149.0	129.3	111.5	
4 x HSN5343-20 (HP404-L-HSN5343-80)	30	212.60	177.86	147.04	119.86	96.06	75.36	57.49	284.1	245.5	211.3	181.1	154.6	131.4	111.2
	40	202.73	169.11	139.29	112.98	89.92	69.84	44.73	289.6	252.5	219.5	190.1	163.9	140.7	112.2
	50			128.56	103.19	80.94	61.55				227.7	198.6	172.4	148.7	
2 x HSN5353-25 (HP402-L-HSN5353-50)	30	124.07	104.20	86.56	70.99	57.35	45.49	35.24	165.3	143.6	124.3	107.2	92.1	78.9	67.3
	40	119.07	99.69	82.48	67.30	53.98	42.39	27.82	168.9	147.7	128.7	111.8	96.7	83.3	66.8
	50			76.80	61.98	48.98	37.65				133.3	116.2	100.8	86.9	
3 x HSN5353-25 (HP403-L-HSN5353-75)	30	186.11	156.30	129.84	106.49	86.03	68.23	52.86	248.0	215.4	186.4	160.8	138.2	118.3	100.9
	40	178.60	149.53	123.72	100.94	80.97	63.58	41.74	253.3	221.5	193.1	167.7	145.1	124.9	100.2
	50			115.19	92.97	73.47	56.47				199.9	174.3	151.3	130.4	
4 x HSN5353-25 (HP404-L-HSN5353-100)	30	248.14	208.40	173.12	141.99	114.71	90.97	70.48	330.6	287.2	248.6	214.4	184.2	157.7	134.5
	40	238.13	199.37	164.96	134.59	107.96	84.77	55.65	337.7	295.3	257.4	223.6	193.4	166.6	133.6
	50			153.59	123.96	97.96	75.29				266.5	232.4	201.7	173.9	
2 x HSN5363-30 (HP402-L-HSN5363-60)	30	144.60	121.64	101.22	83.15	67.28	53.43	41.42	193.1	167.7	145.1	125.0	107.3	91.6	77.8
	40	138.53	116.24	96.41	78.85	63.41	49.90	33.27	196.6	171.9	149.8	130.1	112.5	96.8	77.9
	50			89.70	72.73	57.78	44.68				154.9	135.4	117.9	102.0	
3 x HSN5363-30 (HP403-L-HSN5363-90)	30	216.90	182.46	151.82	124.73	100.92	80.14	62.14	289.6	251.5	217.6	187.5	160.9	137.4	116.7
	40	207.80	174.37	144.61	118.28	95.11	74.85	49.91	294.9	257.8	224.7	195.1	168.8	145.2	116.9
	50			134.55	109.09	86.67	67.02				232.4	203.1	176.8	153.1	
4 x HSN5363-30 (HP404-L-HSN5363-120)	30	289.20	243.28	202.43	166.31	134.56	106.86	82.85	386.2	335.4	290.2	250.0	214.6	183.2	155.6
	40	277.06	232.49	192.82	157.71	126.81	99.80	66.54	393.1	343.8	299.6	260.2	225.0	193.7	155.8
	50			179.40	145.45	115.56	89.37				309.8	270.8	235.8	204.1	
2 x HSN6451-40 (HP502-L-HSN6451-80)	30	166.96	140.32	116.63	95.68	77.29	61.26	47.40	222.0	192.9	167.0	144.0	123.8	106.0	90.4
	40	160.02	134.11	111.05	90.66	72.74	57.10	37.47	226.1	197.9	172.6	150.1	130.0	112.0	90.0
	50			103.24	83.41	65.96	50.71				178.4	155.9	135.5	117.1	
3 x HSN6451-40 (HP503-L-HSN6451-120)	30	250.44	210.49	174.95	143.53	115.94	91.90	71.11	333.1	289.4	250.5	216.1	185.7	159.0	135.6
	40	240.03	201.16	166.58	135.99	109.11	85.65	56.20	339.1	296.8	258.9	225.1	194.9	168.1	135.0
	50			154.86	125.11	98.94	76.07				267.6	233.8	203.3	175.7	
4 x HSN6451-40 (HP504-L-HSN6451-160)	30	333.92	280.65	233.26	191.37	154.59	122.53	94.81	444.1	385.8	334.0	288.1	247.6	212.0	180.8
	40	320.03	268.21	222.10	181.32	145.48	114.20	74.93	452.2	395.7	345.2	300.1	259.9	224.1	179.9
	50			206.48	166.81	131.92	101.42				356.8	311.7	271.1	234.2	
2 x HSN6461-50 (HP502-L-HSN6461-100)	30	197.75	166.38	138.48	113.81	92.14	73.21	56.78	264.0	229.2	198.3	171.0	146.8	125.5	106.7
	40	188.71	158.43	131.49	107.64	86.65	68.26	45.53	267.4	234.0	204.1	177.5	153.7	132.6	106.9
	50			121.87	98.96	78.76	61.03				210.2	184.2	160.8	139.7	
3 x HSN6461-50 (HP503-L-HSN6461-150)	30	296.62	249.56	207.72	170.72	138.21	109.81	85.17	396.0	343.9	297.5	256.5	220.3	188.3	160.0
	40	283.07	237.65	197.24	161.47	129.97	102.39	68.29	401.2	350.9	306.1	266.2	230.6	198.8	160.3
	50			182.81	148.44	118.14	91.55				315.4	276.3	241.2	209.5	
4 x HSN6461-50 (HP504-L-HSN6461-200)	30	395.50	332.75	276.96	227.63	184.27	146.41	113.56	528.0	458.5	396.7	342.0	293.7	251.0	213.4
	40	377.42	316.86	262.98	215.29	173.30	136.52	91.06	534.9	467.9	408.2	354.9	307.5	265.1	213.7
	50			243.74	197.92	157.52	122.06				420.5	368.4	321.6	279.3	
2 x HSN7451-60 (HP502-L-HSN7451-120)	30	247.04	206.45	170.54	138.98	111.41	87.47	66.80	327.0	281.8	242.0	207.2	176.7	150.2	127.1
	40	233.57	194.83	160.55	130.38	103.97	80.96	52.28	329.4	286.9	249.3	216.0	186.5	160.4	128.5
	50			147.29	118.61	93.45	71.46				256.7	224.6	195.7	169.7	
3 x HSN7451-60 (HP503-L-HSN7451-180)	30	370.56	309.67	255.81	208.47	167.11	131.20	100.20	490.5	422.7	363.0	310.7	265.1	225.3	190.6
	40	350.35	292.24	240.83	195.58	155.96	121.44	78.42	494.2	430.4	373.9	323.9	279.8	240.6	192.7
	50			220.93	177.91	140.17	107.18				385.1	336.9	293.6	254.5	
4 x HSN7451-60 (HP504-L-HSN7451-240)	30	494.09	412.89	341.09	277.96	222.81	174.93	133.61	654.0	563.6	484.1	414.3	353.4	300.4	254.2
	40	467.14	389.66	321.10	260.77	207.95	161.92	104.56	658.9	573.9	498.5	431.9	373.0	320.8	257.0
	50			294.58	237.21	186.89	142.91				513.5	449.1	391.4	339.3	

PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		10	5	0	-5	-10	-15	-20	10	5	0	-5	-10	-15	-20
2 x HSK7461-80 (HP502-M-HSK7461-160)	30	595.35	516.92	445.81	381.60	323.85	272.16	226.08	684.3	603.1	530.4	465.4	407.3	355.4	308.9
	40	565.84	490.14	421.59	359.77	304.25	254.61	210.42	672.4	594.9	525.5	463.5	408.1	358.5	313.9
	50	530.19	457.26	391.33	331.95	278.70	231.17	188.91	658.8	585.3	519.5	460.8	408.3	361.3	319.1
3 x HSK7461-80 (HP503-M-HSK7461-240)	30	893.02	775.38	668.71	572.39	485.78	408.23	339.12	1026.5	904.7	795.7	698.1	611.0	533.1	463.4
	40	848.76	735.21	632.38	539.65	456.38	381.92	315.63	1008.6	892.3	788.3	695.2	612.1	537.7	470.9
	50	795.28	685.90	586.99	497.92	418.05	346.75	283.37	988.2	877.9	779.3	691.2	612.5	542.0	478.6
4 x HSK7461-80 (HP504-M-HSK7461-320)	30	1190.70	1033.84	891.62	763.19	647.71	544.31	452.16	1368.7	1206.3	1060.9	930.9	814.7	710.9	617.8
	40	1131.68	980.28	843.18	719.54	608.50	509.22	420.84	1344.8	1189.8	1051.0	927.0	816.1	716.9	627.8
	50	1060.37	914.53	782.65	663.89	557.40	462.33	377.82	1317.6	1170.5	1039.0	921.6	816.6	722.7	638.2
2 x HSK7471-90 (HP502-M-HSK7471-180)	30	640.60	557.90	482.80	414.81	353.42	298.13	248.43	745.4	660.1	582.4	512.0	448.2	390.8	339.1
	40	613.12	532.80	459.82	393.68	333.87	279.90	231.25	737.4	654.5	579.1	510.7	448.8	393.0	342.7
	50	577.30	499.88	429.54	365.78	308.07	255.94	208.86	725.5	646.0	573.7	508.2	449.0	395.7	347.7
3 x HSK7471-90 (HP503-M-HSK7471-270)	30	960.90	836.84	724.20	622.21	530.13	447.19	372.64	1118.1	990.1	873.6	768.0	672.4	586.2	508.6
	40	919.69	799.20	689.73	590.52	500.81	419.84	346.87	1106.1	981.8	868.7	766.0	673.2	589.5	514.1
	50	865.95	749.83	644.32	548.66	462.11	383.91	313.29	1088.3	969.0	860.5	762.3	673.5	593.5	521.6
4 x HSK7471-90 (HP504-M-HSK7471-360)	30	1281.20	1115.79	965.60	829.62	706.84	596.25	496.86	1490.8	1320.1	1164.8	1023.9	896.5	781.5	678.1
	40	1226.25	1065.60	919.64	787.36	667.74	559.79	462.49	1474.7	1309.0	1158.2	1021.4	897.6	786.0	685.4
	50	1154.60	999.77	859.09	731.55	616.15	511.88	417.72	1451.1	1292.0	1147.4	1016.4	898.0	791.3	695.4
2 x HSK8551-110 (HP602-M-HSK8551-220)	30	864.93	750.58	647.30	554.40	471.25	397.17	331.50	976.4	864.9	764.4	674.2	593.4	521.2	456.8
	40	827.14	716.18	615.86	525.54	444.54	372.21	307.88	974.7	867.5	770.5	683.0	604.2	533.1	469.1
	50	774.26	666.85	569.69	482.10	403.43	333.02	270.20	966.9	864.0	770.6	685.8	608.9	539.1	475.5
3 x HSK8551-110 (HP603-M-HSK8551-330)	30	1297.40	1125.88	970.94	831.61	706.88	595.75	497.25	1464.6	1297.3	1146.6	1011.3	890.1	781.8	685.2
	40	1240.71	1074.26	923.79	788.31	666.81	558.31	461.82	1462.1	1301.3	1155.8	1024.6	906.3	799.7	703.7
	50	1161.39	1000.28	854.53	723.15	605.15	499.53	405.30	1450.3	1296.0	1155.8	1028.7	913.4	808.6	713.2
4 x HSK8551-110 (HP604-M-HSK8551-440)	30	1729.87	1501.17	1294.59	1108.81	942.50	794.34	663.00	1952.8	1729.8	1528.8	1348.4	1186.8	1042.4	913.6
	40	1654.28	1432.35	1231.73	1051.08	889.08	744.42	615.76	1949.5	1735.0	1541.1	1366.1	1208.4	1066.3	938.2
	50	1548.52	1333.70	1139.37	964.20	806.86	666.04	540.40	1933.7	1727.9	1541.1	1371.6	1217.9	1078.2	950.9
2 x HSK8561-125 (HP602-M-HSK8561-250)	30	967.68	839.16	723.11	618.72	525.18	441.66	367.34	1105.3	973.9	856.8	752.6	659.9	577.2	503.1
	40	916.06	792.47	681.05	580.98	491.45	411.63	340.71	1084.6	960.6	850.0	751.4	663.3	584.4	513.1
	50	854.10	735.68	629.12	533.59	448.30	372.41	305.11	1065.3	948.8	844.8	751.9	668.6	593.5	525.2
3 x HSK8561-125 (HP603-M-HSK8561-375)	30	1451.52	1258.73	1084.66	928.08	787.77	662.48	551.01	1657.9	1460.8	1285.2	1128.9	989.8	865.8	754.6
	40	1374.08	1188.70	1021.57	871.47	737.17	617.44	511.06	1626.9	1440.9	1275.0	1127.1	995.0	876.6	769.7
	50	1281.16	1103.52	943.67	800.39	672.45	558.61	457.66	1598.0	1423.2	1267.2	1127.8	1002.9	890.3	787.8
4 x HSK8561-125 (HP604-M-HSK8561-500)	30	1935.36	1678.31	1446.22	1237.44	1050.35	883.31	734.68	2210.6	1947.7	1713.5	1505.2	1319.8	1154.4	1006.2
	40	1832.11	1584.94	1362.10	1161.96	982.89	823.26	681.41	2169.2	1921.1	1700.0	1502.8	1326.7	1168.8	1026.3
	50	1708.21	1471.36	1258.23	1067.19	896.60	744.82	610.21	2130.6	1897.5	1689.6	1503.7	1337.2	1187.0	1050.4
2 x HSK8571-140 (HP602-M-HSK8571-280)	30	1061.92	923.33	797.87	684.74	583.17	492.38	411.58	1227.6	1084.9	955.8	839.7	735.5	642.6	560.2
	40	1012.79	879.28	758.28	649.00	550.66	462.48	383.68	1209.8	1073.9	950.7	839.6	739.6	649.9	569.8
	50	950.77	823.06	707.24	602.52	508.14	423.30	347.22	1191.5	1063.3	947.0	841.9	747.0	661.5	584.6
3 x HSK8571-140 (HP603-M-HSK8571-420)	30	1592.88	1385.00	1196.80	1027.11	874.76	738.57	617.37	1841.4	1627.3	1433.7	1259.5	1103.3	964.0	840.2
	40	1519.19	1318.92	1137.42	973.50	825.99	693.72	575.53	1814.6	1610.8	1426.1	1259.4	1109.4	974.9	854.7
	50	1426.16	1234.59	1060.86	903.79	762.21	634.95	520.83	1787.2	1595.0	1420.6	1262.8	1120.4	992.2	877.0
4 x HSK8571-140 (HP604-M-HSK8571-560)	30	2123.83	1846.67	1595.74	1369.48	1166.35	984.76	823.16	2455.2	2169.7	1911.7	1679.3	1471.1	1285.3	1120.3
	40	2025.58	1758.56	1516.56	1298.00	1101.32	924.97	767.37	2419.5	2147.7	1901.5	1679.2	1479.2	1299.8	1139.6
	50	1901.55	1646.12	1414.48	1205.05	1016.27	846.59	694.44	2382.9	2126.6	1894.1	1683.7	1493.9	1323.0	1169.3

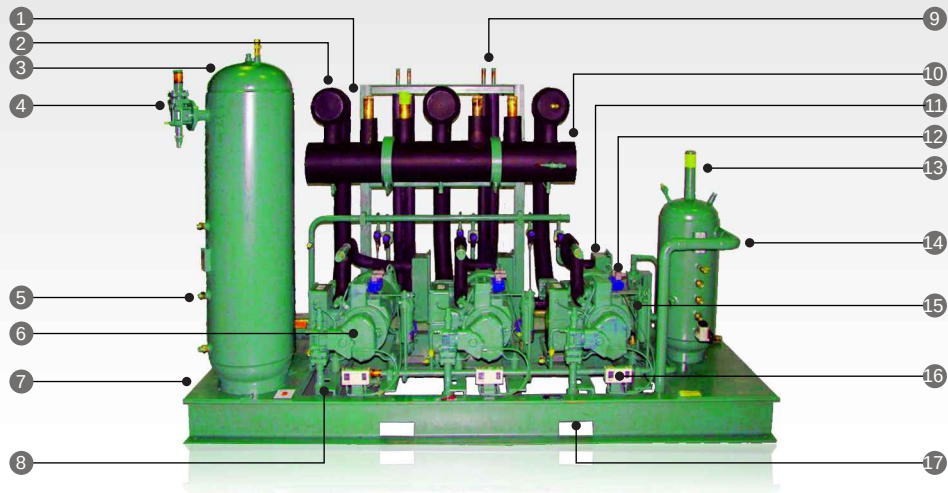
PERFORMANCE DATA

Performance data, based on 10k suction gas superheat, economizer operation; 50Hz

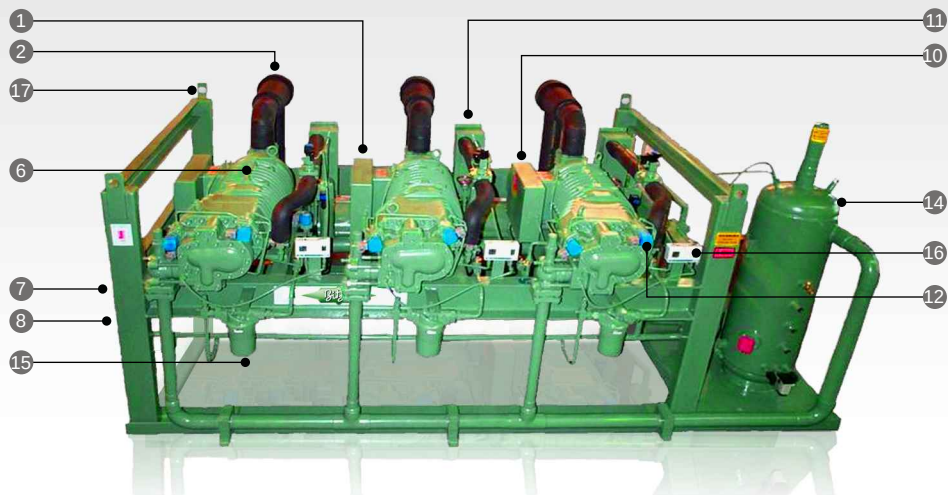
Type	Cond. temp. °C	Cooling capacity Qo [kW]							Heat Rejection HR [kW]						
		Evaporating temperature °C							Evaporating temperature °C						
		-15	-20	-25	-30	-35	-40	-45	-15	-20	-25	-30	-35	-40	-45
2 x HSN7461-70 (HP502-L-HSN7461-140)	30	274.04	230.12	191.21	156.92	126.91	100.79	78.21	362.0	314.0	271.6	234.1	201.3	172.4	147.2
	40	260.94	218.65	181.16	148.10	119.11	93.82	62.10	365.8	319.9	279.0	242.7	210.4	181.7	146.3
	50	244.28	203.64	167.61	135.80	107.86	83.42		370.8	326.5	286.6	250.9	218.7	189.6	
3 x HSN7461-70 (HP503-L-HSN7461-210)	30	411.05	345.18	286.81	235.39	190.36	151.19	117.31	543.1	471.1	407.4	351.2	301.9	258.6	220.7
	40	391.40	327.97	271.74	222.15	178.67	140.72	93.15	548.8	479.9	418.5	364.0	315.6	272.5	219.4
	50	366.42	305.47	251.41	203.70	161.79	125.12		556.2	489.7	429.9	376.3	328.0	284.4	
4 x HSN7461-70 (HP504-L-HSN7461-280)	30	548.07	460.24	382.41	313.85	253.81	201.58	156.41	724.1	628.1	543.2	468.3	402.5	344.8	294.3
	40	521.87	437.30	362.32	296.20	238.22	187.63	124.20	731.7	639.8	558.0	485.3	420.8	363.3	292.6
	50	488.55	407.29	335.22	271.60	215.72	166.83		741.6	652.9	573.3	501.7	437.4	379.1	
2 x HSN7471-75 (HP502-L-HSN7471-150)	30	295.83	248.64	206.83	170.00	137.73	109.60	85.21	392.4	340.1	293.9	253.2	217.3	185.8	158.0
	40	280.73	235.57	195.54	160.22	129.20	102.06	68.55	394.8	345.0	300.8	261.5	226.7	195.7	158.0
	50	261.52	218.58	180.50	146.87	117.28	91.31		398.2	350.7	308.3	270.4	236.4	205.8	
3 x HSN7471-75 (HP503-L-HSN7471-225)	30	443.75	372.96	310.25	255.00	206.59	164.41	127.82	588.5	510.1	440.8	379.8	326.0	278.7	237.0
	40	421.10	353.36	293.31	240.33	193.79	153.09	102.82	592.3	517.5	451.1	392.3	340.0	293.5	237.1
	50	392.28	327.87	270.76	220.31	175.92	136.97		597.3	526.0	462.4	405.6	354.6	308.7	
4 x HSN7471-75 (HP504-L-HSN7471-300)	30	591.67	497.28	413.66	340.00	275.46	219.21	170.43	784.7	680.2	587.8	506.3	434.7	371.6	316.0
	40	561.47	471.15	391.08	320.44	258.39	204.11	137.10	789.7	690.0	601.5	523.0	453.3	391.3	316.1
	50	523.05	437.16	361.01	293.75	234.56	182.62		796.4	701.4	616.6	540.8	472.9	411.6	
2 x HSN8571-125 (HP602-L-HSN8571-250)	30	496.06	417.59	348.28	287.40	234.26	188.14	148.33	650.4	564.2	487.8	420.3	361.0	309.0	263.3
	40	473.71	397.69	330.44	271.24	219.39	174.17	115.59	658.4	574.4	499.4	432.5	372.8	319.4	252.3
	50		369.87	305.09	247.99	197.84	153.95			585.8	511.5	444.5	383.9	328.8	
3 x HSN8571-125 (HP603-L-HSN8571-375)	30	744.10	626.39	522.42	431.10	351.39	282.21	222.49	975.6	846.2	731.7	630.5	541.6	463.5	394.9
	40	710.57	596.54	495.66	406.86	329.08	261.25	173.39	987.7	861.6	749.1	648.7	559.1	479.1	378.5
	50		554.80	457.64	371.98	296.76	230.92			878.6	767.3	666.8	575.9	493.2	
4 x HSN8571-125 (HP604-L-HSN8571-500)	30	992.13	835.19	696.56	574.81	468.52	376.28	296.66	1300.8	1128.3	975.5	840.7	722.1	617.9	526.6
	40	947.43	795.38	660.87	542.48	438.77	348.34	231.18	1316.9	1148.9	998.8	864.9	745.5	638.9	504.7
	50		739.73	610.18	495.97	395.68	307.89			1171.5	1023.1	889.1	767.8	657.6	
2 x HSN8591-160 (HP602-L-HSN8591-320)	30	629.80	528.00	438.60	360.20	292.00	233.00	182.20	825.4	715.0	618.2	533.1	458.4	392.8	334.9
	40	597.60	500.80	415.20	340.20	274.60	217.60	168.40	834.1	728.8	635.3	552.5	478.8	413.2	354.5
	50		467.80	386.60	314.80	251.80	196.40			748.8	657.8	575.8	501.8	434.3	
3 x HSN8591-160 (HP603-L-HSN8591-480)	30	944.70	792.00	657.90	540.30	438.00	349.50	273.30	1238.1	1072.5	927.3	799.6	687.6	589.2	502.3
	40	896.40	751.20	622.80	510.30	411.90	326.40	252.60	1251.2	1093.2	952.9	828.7	718.2	619.8	531.8
	50		701.70	579.90	472.20	377.70	294.60			1123.2	986.7	863.7	752.6	651.5	
4 x HSN8591-160 (HP504-L-HSN8591-640)	30	1259.60	1056.00	877.20	720.40	584.00	466.00	364.40	1650.8	1430.1	1236.4	1066.2	916.8	785.6	669.8
	40	1195.20	1001.60	830.40	680.40	549.20	435.20	336.80	1668.2	1457.6	1270.6	1104.9	957.7	826.4	709.0
	50		935.60	773.20	629.60	503.60	392.80			1497.6	1315.6	1151.5	1003.5	868.6	

PRODUCT LAYOUT BY FRAME

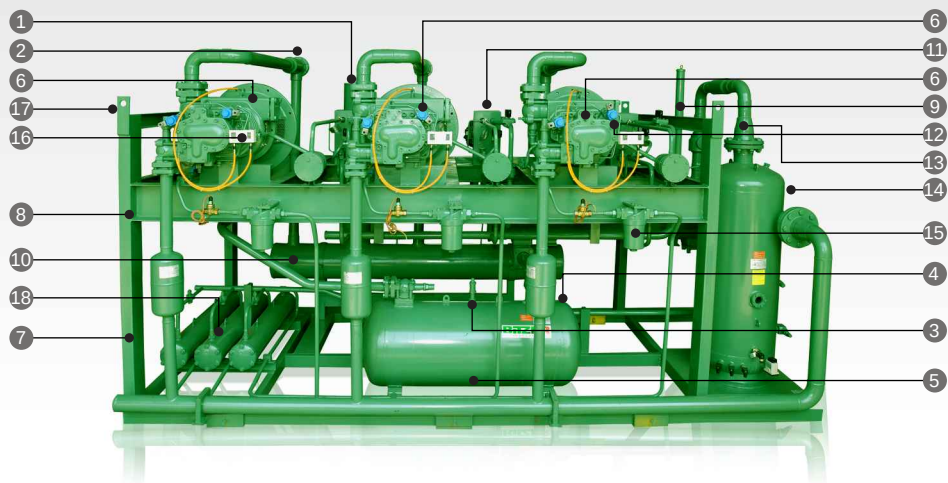
HP 400



HP 500

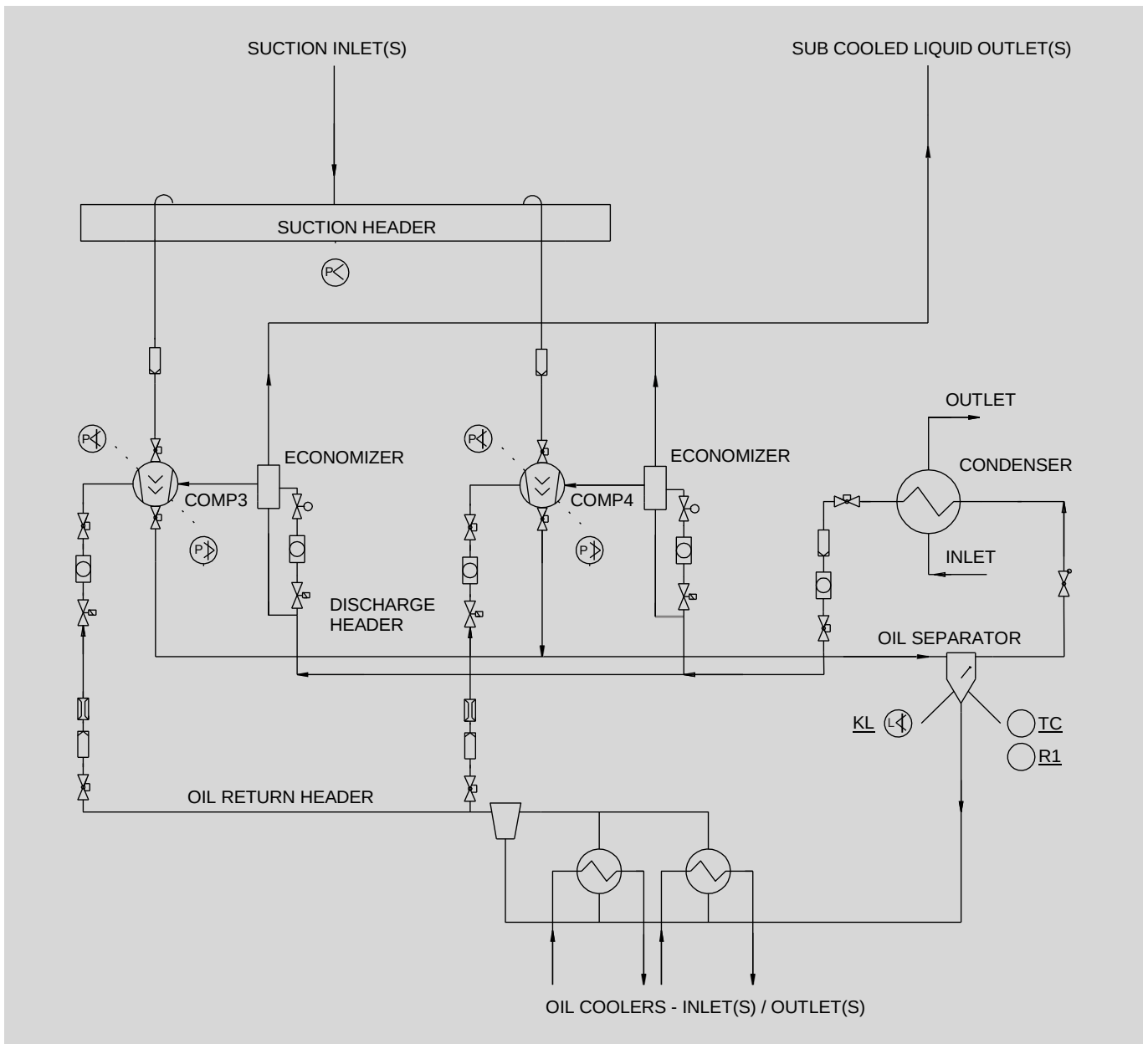


HP 600



- | | | |
|---|-----------------------------------|--|
| 1 Suction connections | 7 Solid metal frame | 13 Discharge connection |
| 2 Suction filters - demountable | 8 Raised compressor mount | 14 Bitzer oil separator |
| 3 Liquid receiver pressure relief valve | 9 Liquid outlet connections | 15 Oil filter and isolation |
| 4 Liquid receiver inlet connection | 10 Suction header / accumulator | 16 Pressure switches |
| 5 Liquid receiver with sight glasses | 11 Economizer | 17 Lifting points |
| 6 Bitzer screw compressors | 12 Compressor unloading solenoids | 18 Water cooled oil coolers (optional) |

SCHEMATIC DIAGRAM



Schematic Legend

Solenoid valve

Shut off valve

Filter (Suction, oil, Liquid)

Oil flow switch

Sight glass

Regulation valve



TECHNICAL DATA

MODEL	No. of comp	Total Displace- ment (m ³ /h)	System		Oil Charge ¹ (dm ³)	Oil Sep. sump heater [Watts]	Liquid receiver pump down ² (kg)			Unit Weight (kg)	
			Voltage (V) / Phase	Max Current (Amps)			R134a	R404A	R22		
HP402-L-HSN5343-40	2	26.8	380-420 / 3	74.0	18.0	1 x 140	123.6	107.7	122.0	1301	
HP403-L-HSN5343-60	3	40.2		111.0	40.0	2 x 100	123.6	107.7	122.0	1706	
HP404-L-HSN5343-80	4	53.2		148.0	40.0	2 x 100	251.6	219.2	248.3	2122	
HP402-M-HSK5343-60	2	168.0		94.0	18.0	1 x 140	123.6	107.7	122.0	1309	
HP403-M-HSK5343-90	3	252.0		141.0	40.0	2 x 100	123.6	107.7	122.0	1718	
HP404-M-HSK5343-120	4	336.0		188.0	40.0	2 x 100	251.6	219.2	248.3	2138	
HP402-L-HSN5353-50	2	200.0		88.0	18.0	1 x 140	123.6	107.7	122.0	1307	
HP403-L-HSN5353-75	3	300.0		132.0	40.0	2 x 100	123.6	107.7	122.0	1715	
HP404-L-HSN5353-100	4	400.0		176.0	40.0	2 x 100	251.6	219.2	248.3	2134	
HP402-M-HSK5353-70	2	200.0		112.0	18.0	1 x 140	123.6	107.7	122.0	1325	
HP403-M-HSK5353-105	3	300.0		168.0	40.0	2 x 100	123.6	107.7	122.0	1742	
HP404-M-HSK5353-140	4	400.0		224.0	40.0	2 x 100	251.6	219.2	248.3	2170	
HP402-L-HSN5363-60	2	236.0		100.0	18.0	1 x 140	123.6	107.7	122.0	1317	
HP403-L-HSN5363-90	3	354.0		150.0	40.0	2 x 100	123.6	107.7	122.0	1730	
HP404-L-HSN5363-120	4	472.0		200.0	40.0	2 x 100	251.6	219.2	248.3	2154	
HP402-M-HSK5363-80	2	236.0		130.0	40.0	2 x 100	123.6	107.7	122.0	1389	
HP403-M-HSK5363-120	3	354.0		195.0	40.0	2 x 100	123.6	107.7	122.0	1757	
HP404-M-HSK5363-160	4	472.0		260.0	90.0	3 x 140	251.6	219.2	248.3	2284	
HP502-L-HSN6451-80	2	26.8	380-420 / 3	130.0	40.0	2 x 100	123.6	107.7	122.0	1711	
HP503-L-HSN6451-120	3	40.2		195.0	40.0	2 x 100	251.6	219.2	248.3	2225	
HP504-L-HSN6451-160	4	53.2		260.0	40.0	2 x 100	251.6	219.2	248.3	2694	
HP502-M-HSK6451-100	2	280.0		158.0	40.0	2 x 100	123.6	107.7	122.0	1719	
HP503-M-HSK6451-150	3	420.0		237.0	40.0	2 x 100	251.6	219.2	248.3	2237	
HP504-M-HSK6451-200	4	560.0		316.0	90.0	3 x 140	251.6	219.2	248.3	2804	
HP502-L-HSN6461-100	2	330.0		158.0	40.0	2 x 100	123.6	107.7	122.0	1719	
HP503-L-HSN6461-150	3	495.0		237.0	40.0	2 x 100	251.6	219.2	248.3	2237	
HP504-L-HSN6461-200	4	660.0		316.0	90.0	3 x 140	251.6	219.2	248.3	2804	
HP502-M-HSK6461-120	2	330.0		196.0	40.0	2 x 100	123.6	107.7	122.0	1735	
HP503-M-HSK6461-180	3	495.0		294.0	90.0	3 x 140	251.6	219.2	248.3	2355	
HP504-M-HSK6461-240	4	660.0		392.0	90.0	3 x 140	251.6	219.2	248.3	2836	
HP502-L-HSN7451-120	2	384.0		196.0	40.0	2 x 100	251.6	219.2	248.3	1892	
HP503-L-HSN7451-180	3	576.0		294.0	40.0	2 x 100	251.6	219.2	248.3	2509	
HP504-L-HSN7451-240	4	768.0		392.0	90.0	3 x 140	353.1	307.6	348.5	3135	
HP502-M-HSK7451-140	2	384.0		248.0	40.0	2 x 100	251.6	219.2	248.3	1908	
HP503-M-HSK7451-210	3	576.0		372.0	90.0	3 x 140	353.1	307.6	348.5	2627	
HP504-M-HSK7451-280	4	768.0		496.0	90.0	3 x 140	353.1	307.6	348.5	3167	
HP502-L-HSN7461-140	2	440.0		248.0	40.0	2 x 100	251.6	219.2	248.3	1918	
HP503-L-HSN7461-210	3	660.0		372.0	90.0	3 x 140	353.1	307.6	348.5	2642	
HP504-L-HSN7461-280	4	880.0		496.0	90.0	3 x 140	353.1	307.6	348.5	3293	
HP502-M-HSK7461-160	2	440.0		288.0	40.0	2 x 100	251.6	219.2	248.3	1926	
HP503-M-HSK7461-240	3	660.0		432.0	90.0	3 x 140	353.1	307.6	348.5	2654	
HP504-M-HSK7461-320	4	880.0		576.0	140.0	3 x 140	353.1	307.6	348.5	3309	
HP502-L-HSN7471-150	2	500.0		288.0	40.0	2 x 100	251.6	219.2	248.3	1950	
HP503-L-HSN7471-225	3	750.0		432.0	90.0	3 x 140	353.1	307.6	348.5	2690	
HP504-L-HSN7471-300	4	1000.0		576.0	90.0	3 x 140	353.1	307.6	348.5	3357	
HP502-M-HSK7471-180	2	500.0		324.0	90.0	3 x 140	251.6	219.2	248.3	2064	
HP503-M-HSK7471-270	3	750.0	486.0	90.0	3 x 140	353.1	307.6	348.5	2826		
HP504-M-HSK7471-360	4	1000.0	648.0	140.0	3 x 140	353.1	307.6	348.5	3397		
HP602-M-HSK8551-220	2	26.8	380-420 / 3	360.0	90.0	3 x 140	353.1	307.6	348.5	2825	
HP603-M-HSK8551-330	3	40.2		540.0	90.0	3 x 140	353.1	307.6	348.5	4105	
HP604-M-HSK8551-440	4	53.2		720.0	140.0	3 x 140	521.9	454.7	515.1	5265	
HP602-M-HSK8561-250	2	718.0		432.0	90.0	3 x 140	353.1	307.6	348.5	2865	
HP603-M-HSK8561-375	3	1077.0		648.0	140.0	3 x 140	521.9	454.7	515.1	4165	
HP604-M-HSK8561-500	4	1436.0		864.0	140.0	3 x 140	606.8	528.7	599.0	5345	
HP602-L-HSN8571-250	2	820.0		432.0	90.0	3 x 140	353.1	307.6	348.5	3005	
HP603-L-HSN8571-375	3	1230.0		648.0	140.0	3 x 140	521.9	454.7	515.1	4375	
HP604-L-HSN8571-500	4	1640.0		864.0	140.0	3 x 140	606.8	528.7	599.0	5625	
HP602-M-HSK8571-280	2	820.0		492.0	90.0	3 x 140	353.1	307.6	348.5	2905	
HP603-M-HSK8571-420	3	1230.0		738.0	140.0	3 x 140	521.9	454.7	515.1	4225	
HP604-M-HSK8571-560	4	1640.0		984.0	250.0	3 x 200	606.8	528.7	599.0	5425	
HP602-L-HSN8591-320	2	TBA						TBA			
HP603-L-HSN8591-480	3										
HP604-L-HSN8591-640	4										

- Oil charge is based on the oil separator charge, additional oil may be required during commissioning.
- Maximum refrigerant pump down capacity of the receiver, may be different from system requirement. Larger receivers available on request. Large receiver capacities have not been shown and require individual selection.
- Discharge line connection based on the liquid receiver size
- Drain line connection based on the liquid receiver size.
- Unit weight based on the standard extent of delivery. The weight is the dry unpacked weight.

The connection sizes for Bitzer Systems are based on a general requirement, different combinations are available on request.

PHOTO SAMPLES

**HP504-L-HSN7471-300
(4 compressor system)**
Complete with: Oil separator,
Liquid receiver, Oil coolers & Condenser



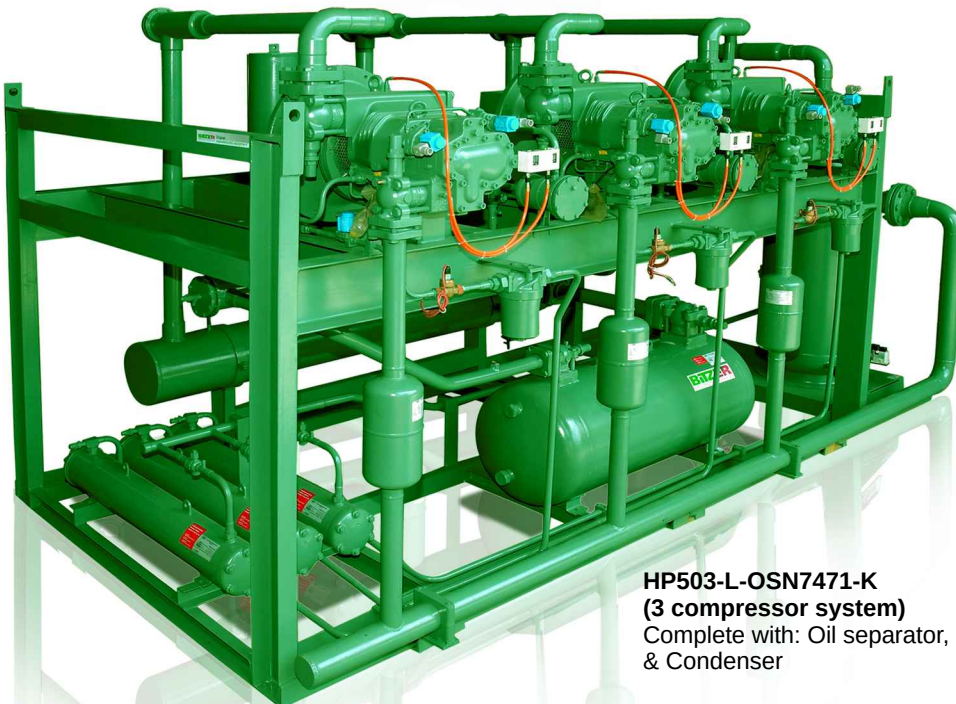
**HP603-L-HSN8571-375
(3 compressor system)**
Complete with: Oil separator,
Liquid receiver, Oil coolers & Condenser



**TowerPAC custom package
(2 compressor system)**
Complete with: HSN5353-25 compressors,
Oil separator & Liquid receiver

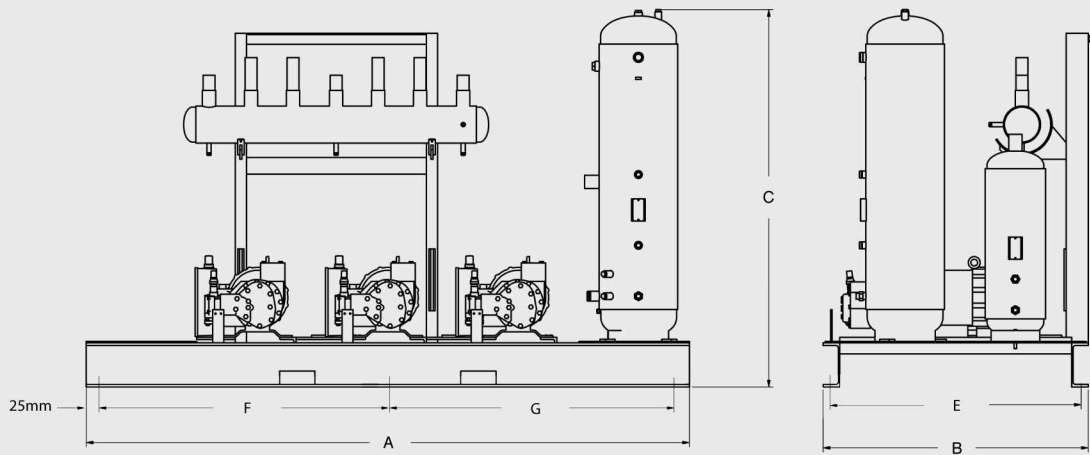


**HP503-L-OSN7471-K
(3 compressor system)**
Complete with: Oil separator, Liquid receiver, Oil coolers
& Condenser

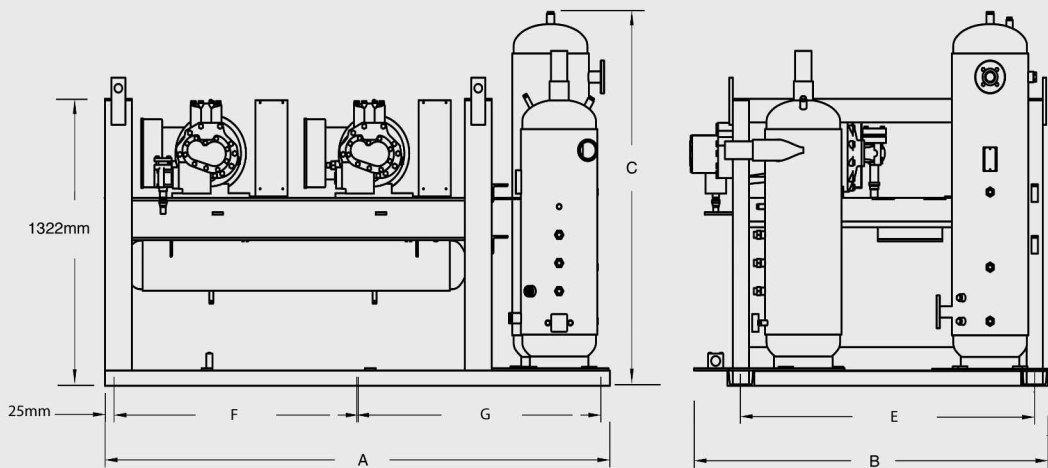


DIMENSION DRAWINGS

HP 400



HP 500 / HP 600



DIMENSIONS

System unit type	Dimensions in mm						Suction Line connection (inch)	Discharge Line connection (inch)	Drain Line - liquid return connection (inch)	Liquid Line connection (inch)
	A	B	C	E	F	G				
HP402-L-HSN5343-40	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	1 5/8"	1 5/8"	1 3/8"
HP403-L-HSN5343-60	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-L-HSN5343-80	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	3 1/8"	2 5/8"	2 1/8"
HP402-M-HSK5343-60	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	1 5/8"	1 5/8"	1 5/8"
HP403-M-HSK5343-90	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-M-HSK5343-120	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	3 1/8"	2 5/8"	2 1/8"
HP402-L-HSN5353-50	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	1 5/8"	1 5/8"	1 5/8"
HP403-L-HSN5353-75	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-L-HSN5353-100	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	3 1/8"	2 5/8"	2 1/8"
HP402-M-HSK5353-70	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	1 5/8"	2 1/8"	1 5/8"
HP403-M-HSK5353-105	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-M-HSK5353-140	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	3 1/8"	2 5/8"	2 1/8"
HP402-L-HSN5363-60	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	1 5/8"	2 1/8"	1 5/8"
HP403-L-HSN5363-90	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-L-HSN5363-120	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	3 1/8"	2 5/8"	2 1/8"
HP402-M-HSK5363-80	2060	1320	1650	1270	1005	1005	2 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP403-M-HSK5363-120	2730	1320	1650	1270	1340	1340	4 x 2 1/8"	3 1/8"	2 1/8"	2 1/8"
HP404-M-HSK5363-160	3400	1320	1650	1270	1675	1675	6 x 2 1/8"	DN 100	2 5/8"	2 1/8"
HP502-L-HSN6451-80	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 1/8"	1 5/8"
HP503-L-HSN6451-120	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP504-L-HSN6451-160	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP502-M-HSK6451-100	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 1/8"	1 5/8"
HP503-M-HSK6451-150	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP504-M-HSK6451-200	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP502-L-HSN6461-100	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 1/8"	1 5/8"
HP503-L-HSN6461-150	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP504-L-HSN6461-200	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP502-M-HSK6461-120	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 1/8"	1 5/8"
HP503-M-HSK6461-180	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP504-M-HSK6461-240	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP502-L-HSN7451-120	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 5/8"	1 5/8"
HP503-L-HSN7451-180	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP504-L-HSN7451-240	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP502-M-HSK7451-140	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 5/8"	1 5/8"
HP503-M-HSK7451-210	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP504-M-HSK7451-280	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP502-L-HSN7461-140	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 5/8"	1 5/8"
HP503-L-HSN7461-210	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP504-L-HSN7461-280	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP502-M-HSK7461-160	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP503-M-HSK7461-240	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP504-M-HSK7461-320	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP502-L-HSN7471-150	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	3 1/8"	2 5/8"	2 1/8"
HP503-L-HSN7471-225	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP504-L-HSN7471-300	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP502-M-HSK7471-180	2350	1650	1800	1530	1150	1150	2 x 3 1/8"	DN 100	2 5/8"	2 1/8"
HP503-M-HSK7471-270	3160	1650	1800	1530	1555	1555	3 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP504-M-HSK7471-360	3930	1650	1800	1530	1940	1940	4 x 3 1/8"	DN 100	3 1/8"	2 1/8"
HP602-M-HSK8551-220	2750	1780	1800	1660	1150	1150	2 x DN100	DN100	3 1/8"	2 1/8"
HP603-M-HSK8551-330	3650	1780	1800	1660	1555	1555	3 x DN100	DN100	3 1/8"	2 1/8"
HP604-M-HSK8551-440	4550	1780	1950	1660	1940	1940	4 x DN100	DN100	DN100	2 5/8"
HP602-M-HSK8561-250	2750	1780	1800	1660	1150	1150	2 x DN100	DN100	3 1/8"	2 1/8"
HP603-M-HSK8561-375	3650	1780	1950	1660	1555	1555	3 x DN100	DN100	DN100	2 1/8"
HP604-M-HSK8561-500	4550	1780	2200	1660	1940	1940	4 x DN100	DN100	DN100	2 5/8"
HP602-L-HSN8571-250	2750	1780	1800	1660	1150	1150	3 x DN100	DN100	3 1/8"	2 1/8"
HP603-L-HSN8571-375	3650	1780	1950	1660	1555	1555	3 x DN100	DN100	DN100	2 5/8"
HP604-L-HSN8571-500	4550	1780	2200	1660	1940	1940	4 x DN100	DN100	DN100	3 1/8"
HP602-M-HSK8571-280	2750	1780	1800	1660	1150	1150	3 x DN100	DN100	3 1/8"	2 1/8"
HP603-M-HSK8571-420	3650	1780	1950	1660	1555	1555	3 x DN100	DN100	DN100	2 5/8"
HP604-M-HSK8571-560	4550	1780	2200	1660	1940	1940	4 x DN100	DN125	DN100	3 1/8"
HP602-L-HSN8591-320	2750	1780	1800	1660	1150	1150	TBA			
HP603-L-HSN8591-480	3650	1780	1950	1660	1555	1555				
HP604-L-HSN8591-640	4550	1780	2200	1660	1940	1940				



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