

Model				
Designation	HXK12AT	200-240V/50Hz 1~	208-230V/60Hz 1~	Sales code: 16470500

Compressor design

Oil type	Mineral	Refrigerant(s)	R600a
Oil viscosity	5cST	Displacement	11,1cm³ / 0,68cu.in
Oil quantity	162cm³ / 5,5fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	1560cm³ / 52,7fl.oz		
Weight	8,9kg / 19,6lbs		
Motor protection	external		
Winding resistance main	12,4Ω (at 25°C)		
Winding resistance aux	15,3Ω (at 25°C)		
Max. winding temp.	130°C / 266°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with HXK12AT

	Conf. 1	Conf. 2	Conf. 3
Motorconfiguration	RSIR	RSCR	RSCR
Power supply (nominal)	200-240V/50Hz	200-240V/50Hz	208-230V/60Hz
Number of phases	1	1	1
Voltage range	170-264V	170-264V	198-253V
Approvals	VDE	VDE	VDE
Starting torque	LST	LST	LST
Note	Various options of connectors are possible - please contact SECOP-Sales.		

Applications with HXK12AT

	Conf. 1	Conf. 2	Conf. 3
Refrigerant	R600a	R600a	R600a
Application	LBP	LBP	LBP
System cooling	static	static	static
Hot gas defrost	-/-	-/-	-/-
Long interval pull down	-/-	-/-	-/-

Electrical data - Configurations with HXK12AT

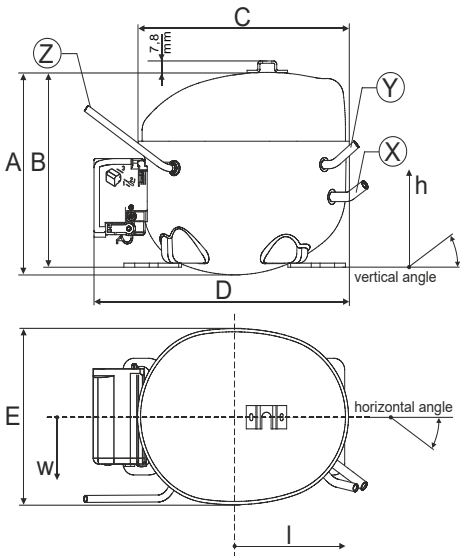
	Conf. 1	Conf. 2	Conf. 3
Starting device type	PTC	PTC	PTC
Run capacitor	-/-	4µF	4µF
Start capacitor	-/-	-/-	-/-
LRA (locked rotor amps / 4s/ U(N))	8,2A	8,2A	
RLA (rated load amps / 1s/ U(N))			
Cut in current (U(N))	16,4A	16,4A	

Model			
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Compressor dimensions

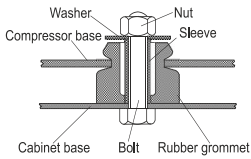
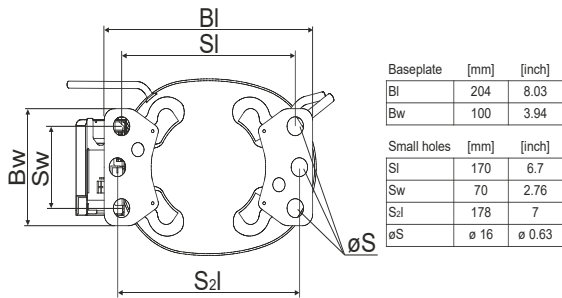
Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	238mm / 9,37in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6,1-6,2	øi 5,1-5,2	øø 5,92-6,08
(i:inside, o:outside) [in]	øi 0,24-0,24	øi 0,2-0,2	øø 0,23-0,24
Material	copper	copper	copper
Horizontal angle	±2° 45°	13°	0°
Vertical angle	±2° 30°	40°	145°
Position l/h/w [mm]	120/72/62	112/106/62	-140/136/70
	[in] 4,7/2,8/2,4	4,4/4,2/2,4	-5,5/5,4/2,8
Straight tube l.	[mm] 14	14	75
	[in] 0,5	0,5	3

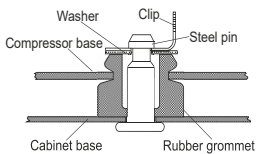


Compressor fixation

Bolt joint



Snap-on



Mounting accessories	order code
'4ZN' with rubber grommet	772N
'4ZN' with rubber grommet and sleeve for M6	768N
Bolt joint kit	4ZN + 118-1917 (18)
'4ZN' with Snap on kit	776N

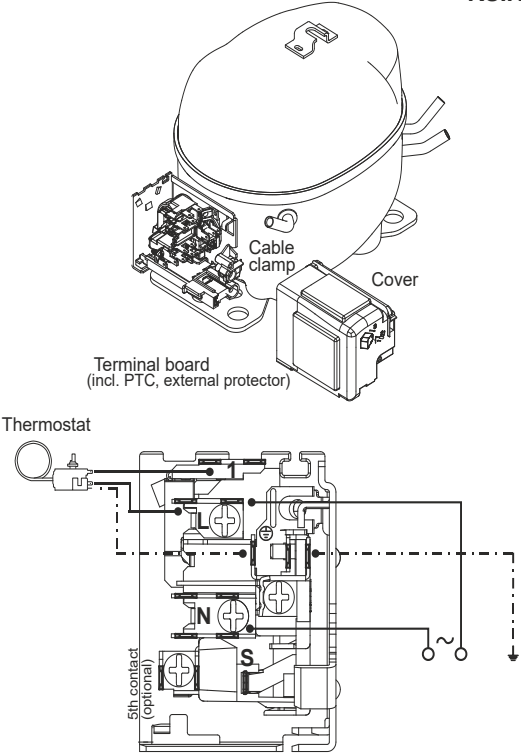
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Housing with dip-tray fixture (omega bracket).

Various options of connectors are possible - please contact SECOP-Sales.

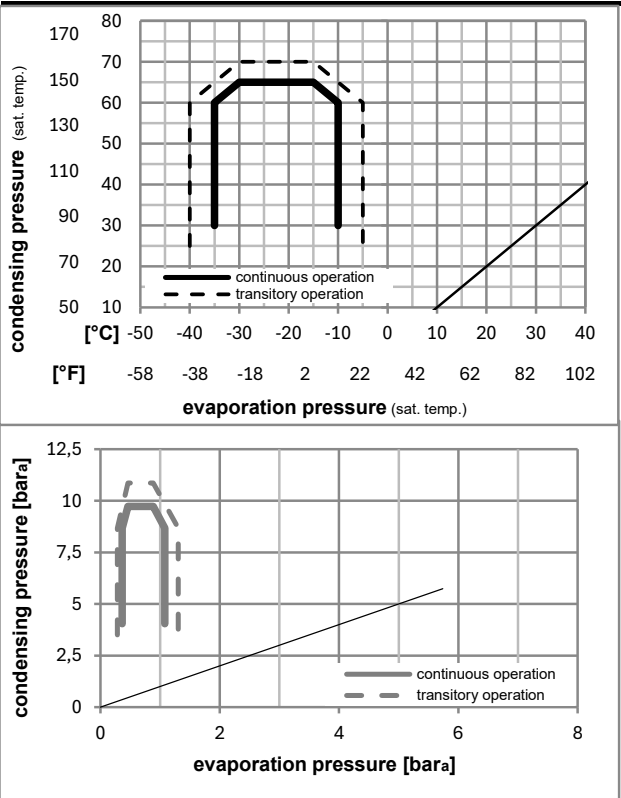
Model				
Designation	HXK12AT	200-240V/50Hz	Conf. 1	Sales code: 16470500

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSIR	RSIR 		
Power supply (nominal)	200-240V/50Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	170-264V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

Operation pressure range



Components		8858-6
. terminal board (PTC, 4.8mm)	16425900	
b cover terminal board	10636401	
. cable clamp	11341000	
. screw - uni6954	10636000	
. screw - uni6954	10636200	
. screw uni en iso 4757	10641201	
Alternative components		
. terminal board (PTC, 6.3mm)	16425700	

Model									
Designation	HXK12AT		200-240V/50Hz		Conf. 1		Sales code:		16470500
Optimization + standard conditions							R600a, 200V/50Hz, RSIR, static, VDE		

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
	[°C]										[W]	[A]	[kg/h]	
	[°F]													
	-23	54	32	32	198,1	677	170,5	1,67	5,70	1,44	118,7	0,63	2,13	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	149,8	511	128,9	1,30	4,43	1,12	115,4	0,61	1,95	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	113,6	388	97,8	1,20	4,10	1,03	94,6	0,55	1,38	EN12900 LBP
	-31	104	68	104										
	-23	49	4,4	49	160,1	547	137,8	1,40	4,80	1,21	114,0	0,61	2,34	ARI540 LBP
	-10	120	40	120										
	-23	41	32	32	208,0	710	179,0	1,93	6,59	1,66	107,7	0,60	2,23	AHAM LBP
	-10	105	90	90										
	-35	45	32	45	110,5	377	95,1	1,13	3,87	0,98	97,5	0,55	1,31	opt
	-31	113	90	113										

Performance tables							R600a, 200V/50Hz, RSIR, static, VDE				
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	110,5	377	95,1	1,13	3,87	0,98	97,5	0,55	1,31
cond. pressure	-30	-22	135,5	463	116,6	1,35	4,61	1,16	100,5	0,56	1,61
pc= 45/113	-25	-13	171,1	584	147,2	1,59	5,43	1,37	107,6	0,59	2,04
return gas temp.	-23	-10	185,6	634	159,7	1,67	5,72	1,44	110,9	0,61	2,21
RGT= 32/90	-20	-4	217,2	742	187,0	1,83	6,26	1,58	118,5	0,64	2,59
liquid temp	-15	5	273,9	936	235,8	2,06	7,05	1,78	132,7	0,70	3,27
Tliq= 45/113	-10	14	341,2	1165	293,7	2,28	7,77	1,96	149,9	0,77	4,09
[°C / °F]	-35	-31	94,1	321	81,0	0,91	3,12	0,79	102,9	0,57	1,22
cond. pressure	-30	-22	117,4	401	101,0	1,10	3,75	0,94	107,0	0,58	1,53
pc= 55/131	-25	-13	149,8	511	128,9	1,30	4,43	1,12	115,4	0,61	1,95
return gas temp	-23	-10	162,8	556	140,1	1,37	4,66	1,18	119,2	0,63	2,13
RGT= 32/90	-20	-4	191,2	653	164,6	1,50	5,11	1,29	127,8	0,66	2,50
liquid temp	-15	5	241,8	826	208,1	1,68	5,74	1,45	143,7	0,73	3,17
Tliq= 55/131	-10	14	301,4	1029	259,4	1,85	6,32	1,59	162,9	0,82	3,96

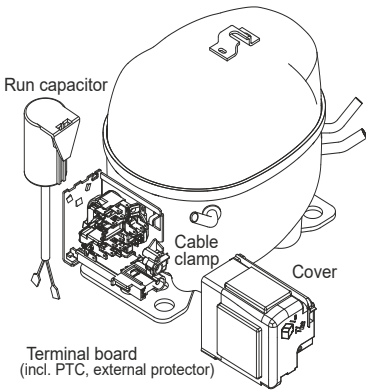
Model				
Designation	HXK12AT	200-240V/50Hz	Conf. 2	Sales code: 16470500

Configuration

Electrical accessories / wiring diagram

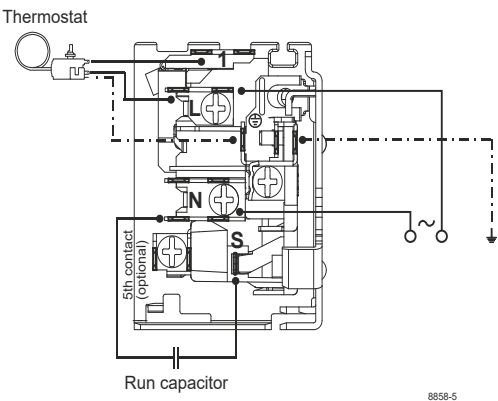
Motorconfiguration	RSCR
Power supply (nominal)	200-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	170-264V
Starting torque	LST
Approvals	VDE

RSCR

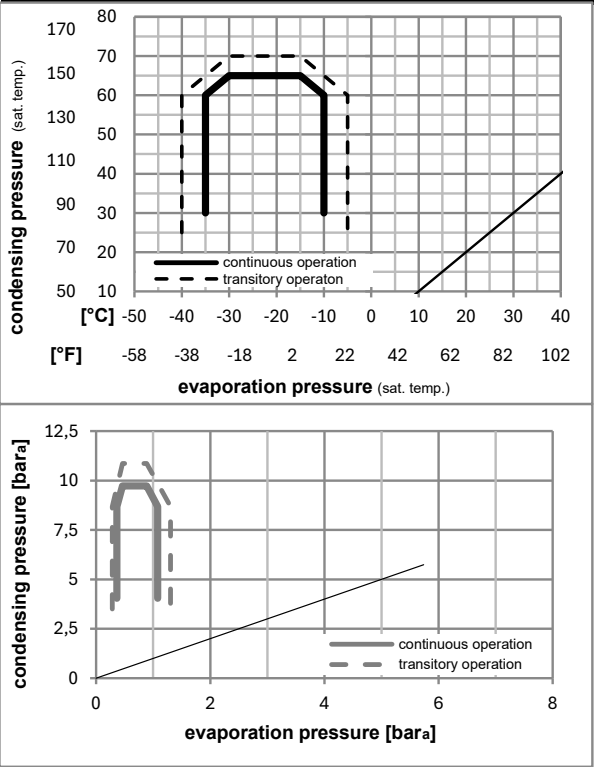


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components		
. terminal board (PTC, 4.8mm)		16425900
. run capacitor (4µF, 4.8mm)		10693001
b cover terminal board		10636401
. cable clamp		11341000
. screw - uni6954		10636000
. screw - uni6954		10636200
Alternative components		
. terminal board (PTC, 6.3mm)		16425700
. run capacitor (4µF, 4.8mm)		16344500
. run capacitor (4µF, 6.3mm)		15186801
. screw uni en iso 4757		10641201

Model													
Designation	HXK12AT			200-240V/50Hz			Conf. 2			Sales code:		16470500	

Optimization + standard conditions

R600a, 200V/50Hz, RSCR, static, VDE

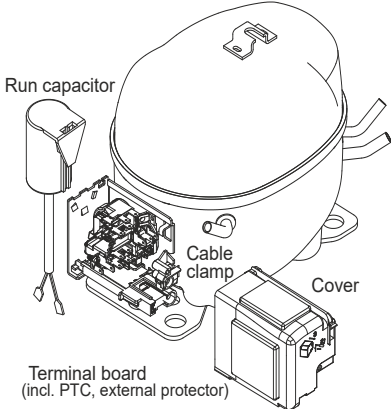
	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)										Current consumption			
	Return gas temp.										Ref. mass flow			
	Liquid temp.													
	Cooling capacity										P1	I	m	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER		[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	200,1	683	172,2	1,73	5,92	1,49	115,5	0,60	2,15	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	151,3	517	130,2	1,35	4,60	1,16	112,3	0,59	1,97	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	114,8	392	98,8	1,25	4,26	1,07	92,1	0,53	1,40	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	161,7	552	139,2	1,46	4,98	1,25	110,9	0,59	2,36	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	210,1	717	180,8	2,00	6,84	1,72	104,8	0,57	2,25	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	111,6	381	96,1	1,18	4,02	1,01	94,8	0,53	1,33	opt
[°F]	-31	113	90	113										

Performance tables

R600a, 200V/50Hz, RSCR, static, VDE

	pe		Cooling capacity			COP		EER		P1		I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]		[Btu/Wh]	[kcal/Wh]	[W]		[A]	[kg/h]
[°C / °F]	-35	-31	111,6	381	96,1	1,18		4,02	1,01	94,8		0,53	1,33
cond. pressure	-30	-22	136,9	467	117,8	1,40		4,78	1,21	97,7		0,54	1,63
pc= 45/113	-25	-13	172,8	590	148,7	1,65		5,64	1,42	104,7		0,57	2,06
return gas temp.	-23	-10	187,5	640	161,3	1,74		5,93	1,50	107,9		0,58	2,23
RGT= 32/90	-20	-4	219,4	749	188,8	1,90		6,50	1,64	115,3		0,61	2,62
liquid temp	-15	5	276,7	945	238,1	2,14		7,32	1,84	129,1		0,67	3,31
Tliq= 45/113	-10	14	344,6	1177	296,6	2,36		8,07	2,03	145,9		0,74	4,13
[°C / °F]	-35	-31	95,0	325	81,8	0,95		3,24	0,82	100,2		0,55	1,24
cond. pressure	-30	-22	118,6	405	102,0	1,14		3,89	0,98	104,1		0,56	1,54
pc= 55/131	-25	-13	151,3	517	130,2	1,35		4,60	1,16	112,3		0,59	1,97
return gas temp	-23	-10	164,5	562	141,5	1,42		4,84	1,22	116,0		0,61	2,15
RGT= 32/90	-20	-4	193,1	660	166,2	1,55		5,30	1,34	124,4		0,64	2,52
liquid temp	-15	5	244,2	834	210,1	1,75		5,96	1,50	139,9		0,71	3,20
Tliq= 55/131	-10	14	304,4	1040	262,0	1,92		6,56	1,65	158,5		0,79	4,00

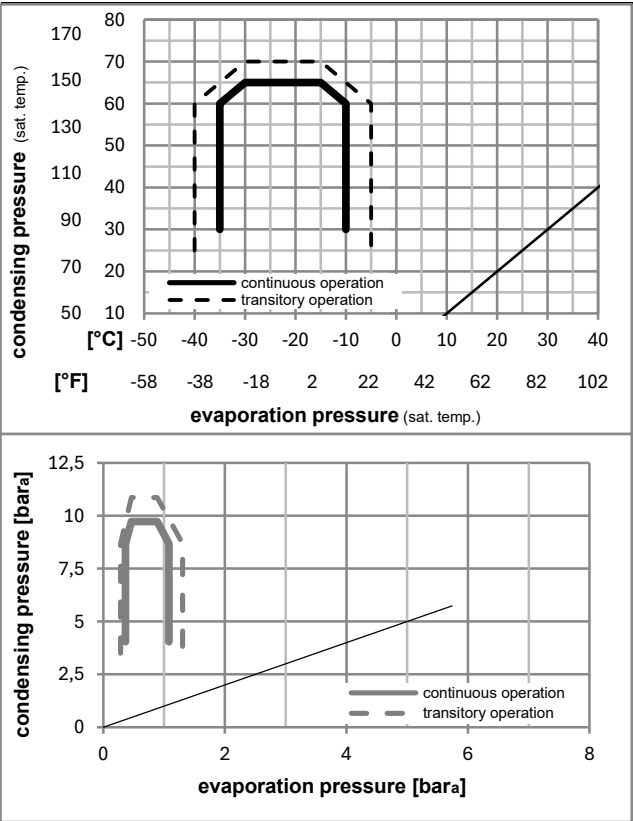
Model				
Designation	HXK12AT	208-230V/60Hz	Conf. 3	Sales code: 16470500

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSCR	RSCR 		
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R600a			
Application	LBP			
Voltage range	198-253V			
Starting torque	LST			
Approvals	VDE			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static

Operation pressure range



Components		
.	terminal board (PTC, 4.8mm)	16425900
.	run capacitor (4µF, 4.8mm)	10693001
b	cover terminal board	10636401
.	cable clamp	11341000
.	screw - uni6954	10636000
.	screw - uni6954	10636200
Alternative components		
.	terminal board (PTC, 6.3mm)	16425700
.	run capacitor (4µF, 4.8mm)	16344500
.	run capacitor (4µF, 6.3mm)	15186801
.	screw uni en iso 4757	10641201

Model													
Designation		HXK12AT			208-230V/60Hz			Conf. 3		Sales code:		16470500	

Optimization + standard conditions

R600a, 220V/60Hz, RSCR, static, VDE

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	235,6	805	202,8	1,75	5,97	1,50	134,8	0,71	2,53	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	178,2	608	153,3	1,36	4,64	1,17	131,1	0,70	2,32	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	134,1	458	115,4	1,25	4,27	1,08	107,2	0,62	1,63	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	189,8	648	163,3	1,47	5,01	1,26	129,4	0,70	2,77	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	245,3	838	211,1	2,01	6,85	1,73	122,2	0,68	2,63	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	131,0	447	112,7	1,19	4,05	1,02	110,5	0,63	1,56	opt
[°F]	-31	113	90	113										

Performance tables

R600a, 220V/60Hz, RSCR, static, VDE

	pe		Cooling capacity			COP		EER			P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]		[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-35	-31	131,0	447	112,7	1,19		4,05	1,02		110,5		0,63		1,56	
cond. pressure	-30	-22	160,3	547	137,9	1,41		4,81	1,21		113,9		0,64		1,91	
pc= 45/113	-25	-13	202,2	690	174,0	1,66		5,66	1,43		122,1		0,67		2,41	
return gas temp.	-23	-10	219,3	749	188,7	1,74		5,95	1,50		125,8		0,69		2,61	
RGT= 32/90	-20	-4	256,6	876	220,9	1,91		6,51	1,64		134,6		0,72		3,06	
liquid temp	-15	5	323,7	1105	278,5	2,14		7,32	1,84		151,0		0,79		3,87	
Tliq= 45/113	-10	14	403,2	1377	347,0	2,36		8,05	2,03		171,0		0,88		4,83	
[°C / °F]	-35	-31	112,3	383	96,6	0,96		3,28	0,83		116,8		0,65		1,46	
cond. pressure	-30	-22	139,8	477	120,3	1,15		3,93	0,99		121,4		0,66		1,82	
pc= 55/131	-25	-13	178,2	608	153,3	1,36		4,64	1,17		131,1		0,70		2,32	
return gas temp	-23	-10	193,7	661	166,7	1,43		4,88	1,23		135,5		0,71		2,53	
RGT= 32/90	-20	-4	227,4	777	195,7	1,56		5,34	1,35		145,4		0,76		2,97	
liquid temp	-15	5	287,6	982	247,5	1,76		5,99	1,51		163,8		0,84		3,77	
Tliq= 55/131	-10	14	358,6	1225	308,6	1,93		6,58	1,66		186,0		0,93		4,71	