

```

*prt:1*****
*                S A B R O E                *
*                -----                    *
*                Chiller Standard Part Load  *
*                -----                    *
*                SEPR  Tabulation            *
*                -----                    *
* File:Chillpac                               Ref.: CSK *
* Date:2019/05/22                             Time:12.21.14 *
* User:JCI/HOLME-YRTP AND SALES TEST USE !    *
*****COMP1-R29.23/004504**

```

EU Declaration of Conformity  
Ecodesign  
Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2015/1095 for low (-25°C) and medium (-8°C) temperatures and CR 2016/2281 for high temperatures (+7°C). The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation. Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3. Value tolerances for selection tools comply with EN 12900. Capacity control is variable. Degradation coefficient Cc = 0,9

Unit: ChillPAC28V-A  
Refrigerant: R717  
Compressor: CMO 28 V  
Evaporator: ESRE 700451  
Condenser: CRRE 700321  
GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	228.56	45.71	12.0	7.0	39.25	0.480	30.0	35.0	46.63	0.601	0.947	4.74
[B]	93.	211.15	31.91	12.0	7.0	36.47	0.447	23.0	28.0	41.47	0.574	0.947	6.27
[C]	87.	197.21	21.90	12.0	7.0	33.79	0.419	16.0	21.0	37.46	0.551	0.947	8.53
[D]	80.	182.87	14.29	12.0	7.0	31.37	0.391	9.0	14.0	33.61	0.510	0.947	12.12

-----  
COP(SEPR) = 9.30  
COP(SEPR LEGAL LIMIT) = 5.85  
ANNUAL ELECTRICITY CONSUMPTION = 182360.14 kWh/Year  
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Torben P. Hansen  
-----  
Signed for and on behalf of

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*prt:7*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEPR  Tabulation       *
*           -----             *
* File:ChillPAC                   Ref.: CSK *
* Date:2019/05/23                 Time:15.10.37 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/204504**

```

EU Declaration of Conformity

Ecodesign

Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

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Unit: ChillPAC28V-C  
Refrigerant: R717  
Compressor: CMO 28 V  
Evaporator: ESRE 700401  
Condenser: CRRE 700321  
GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	113.37	35.86	-2.0	-8.0	17.62	0.265	30.0	35.0	24.62	0.375	0.939	2.97
[B]	93.	105.32	26.36	-2.0	-8.0	16.31	0.248	23.0	28.0	22.02	0.342	0.939	3.75
[C]	87.	98.39	19.48	-2.0	-8.0	15.24	0.235	16.0	21.0	19.88	0.313	0.939	4.74
[D]	80.	89.54	13.81	-2.0	-8.0	13.87	0.219	9.0	14.0	17.53	0.281	0.939	6.09
COP(SEPR) =												5.05	
COP(SEPR LEGAL LIMIT) =												2.57	
ANNUAL ELECTRICITY CONSUMPTION =												166634.09 kWh/Year	

Torben P. Hansen

Signed for and on behalf of

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*prt:6*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEPR  Tabulation       *
*           -----             *
* File:Chillpac                   Ref.: CSK *
* Date:2019/05/22                 Time:11.26.46 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/004504**

```

EU Declaration of Conformity

Ecodesign

Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
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Unit: ChillPAC112LV-A  
Refrigerant: R717  
Compressor: SMC 112LV  
Evaporator: ESRE 702121  
Condenser: CRRE 701321  
GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	060.96	201.55	12.0	7.0	182.16	0.652	30.0	35.0	214.88	0.763	0.952	5.01
[B]	93.	985.88	148.09	12.0	7.0	168.84	0.633	23.0	28.0	193.81	0.738	0.952	6.34
[C]	87.	893.90	101.91	12.0	7.0	153.47	0.607	16.0	21.0	170.36	0.707	0.952	8.35
[D]	80.	836.80	63.17	12.0	7.0	143.67	0.589	9.0	14.0	153.72	0.683	0.952	12.61
COP(SEPR) =												9.40	
COP(SEPR LEGAL LIMIT) =												6.75	
ANNUAL ELECTRICITY CONSUMPTION =												837414.44 kWh/Year	

Torben P. Hansen  
-----  
Signed for and on behalf of

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*prt:8*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEPR  Tabulation       *
*           -----             *
* File:Chillpac                   Ref.: CSK *
* Date:2019/05/22                 Time:13.24.52 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/004504**

```

EU Declaration of Conformity  
 Ecodesign  
 Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
 Christian X's Vej 201, 8270 Højbjerg, Denmark  
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Unit: ChillPAC112LV-C  
 Refrigerant: R717  
 Compressor: SMC 112LV  
 Evaporator: ESRE 701801  
 Condenser: CRRE 700711  
 GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	528.91	163.86	-2.0	-8.0	82.17	0.445	30.0	35.0	114.26	0.704	0.952	3.07
[B]	93.	491.62	125.19	-2.0	-8.0	75.89	0.416	23.0	28.0	102.85	0.679	0.952	3.74
[C]	87.	457.54	93.49	-2.0	-8.0	71.08	0.392	16.0	21.0	92.68	0.655	0.952	4.66
[D]	80.	421.25	66.10	-2.0	-8.0	65.44	0.369	9.0	14.0	82.50	0.628	0.952	6.07

-----  
 COP(SEPR) = 5.00  
 COP(SEPR LEGAL LIMIT) = 3.42  
 ANNUAL ELECTRICITY CONSUMPTION = 783965.19 kWh/Year  
 -----

Torben P. Hansen  
 -----  
 Signed for and on behalf of

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*prt:1*****
*           S A B R O E           *
*           -----           *
*           Chiller Standard Part Load           *
*           -----           *
*           SEPR  Tabulation           *
*           -----           *
* File:ComPAC151LC_Comfort           Ref.:JAE           *
* Date:2019/06/18           Time:13.58.22           *
* User:JCI/HOLME-YRTP AND SALES TEST USE !           *
*****COMP1-R29.23/204504**

```

EU Declaration of Conformity  
Ecodesign  
Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

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Unit: ComPAC-151LR-A  
Refrigerant: R717  
Compressor: SAB 151LR  
Evaporator: ESRE 701901  
Condenser: CRRE 701251  
GWP = 0

	Load %	PLoad kw	DPower kw	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	931.91	191.46	12.0	7.0	160.00	0.635	30.0	35.0	181.81	0.743	0.961	4.68
[B]	93.	861.02	138.73	12.0	7.0	148.84	0.614	23.0	28.0	166.52	0.722	0.961	5.96
[C]	87.	806.21	102.37	12.0	7.0	138.41	0.596	16.0	21.0	154.65	0.705	0.961	7.57
[D]	80.	735.73	73.28	12.0	7.0	126.24	0.572	9.0	14.0	138.12	0.678	0.961	9.65

-----  
COP(SEPR) = 8.02  
COP(SEPR LEGAL LIMIT) = 6.75  
ANNUAL ELECTRICITY CONSUMPTION = 861452.50 kWh/Year  
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Torben P. Hansen  
-----  
Signed for and on behalf of

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*prt:9*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEPR  Tabulation       *
*           -----             *
* File:ComPAC151LC_Process      Ref.:JAE *
* Date:2019/06/18              Time:13.49.59 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/204504**

```

EU Declaration of Conformity  
Ecodesign  
Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

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Unit: ComPAC-151LR-C  
Refrigerant: R717  
Compressor: SAB 151LR  
Evaporator: ESRE 701801  
Condenser: CRRE 700631  
GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	514.33	171.51	-2.0	-8.0	79.90	0.434	30.0	35.0	102.44	0.691	0.961	2.88
[B]	93.	476.00	130.02	-2.0	-8.0	73.90	0.405	23.0	28.0	94.14	0.670	0.961	3.52
[C]	87.	446.76	99.08	-2.0	-8.0	69.26	0.385	16.0	21.0	87.92	0.656	0.961	4.33
[D]	80.	410.36	72.12	-2.0	-8.0	63.71	0.362	9.0	14.0	80.16	0.635	0.961	5.47

-----  
COP(SEPR) = 4.60  
COP(SEPR LEGAL LIMIT) = 3.42  
ANNUAL ELECTRICITY CONSUMPTION = 829201.38 kWh/Year  
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Torben P. Hansen  
-----  
Signed for and on behalf of

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*prt:7*****
*           S A B R O E           *
*           -----               *
*           Chiller Standard Part Load           *
*           -----               *
*           SEPR  Tabulation           *
*           -----               *
* File:ComPAC193LA_Process           Ref.:JAE     *
* Date:2019/06/18                   Time:11.23.43 *
* User:JCI/HOLME-YRTP AND SALES TEST USE !      *
*****COMP1-R29.23/204504*****

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EU Declaration of Conformity

Ecodesign

Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2015/1095 for low (-25°C) and medium (-8°C) temperatures and CR 2016/2281 for high temperatures (+7°C).

The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.

Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3.

Value tolerances for selection tools comply with EN 12900.

Capacity control is variable.

Degradation coefficient Cc = 0,9

Unit: SAB 193L  
Refrigerant: R717  
Compressor: SAB 193LR  
Evaporator: EPSH 7HH224  
Condenser: CRRE 702361  
GWP = 0

	Load %	PLoad kw	DPower kw	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	455.02	280.41	12.0	7.0	249.85	0.682	30.0	35.0	287.61	0.752	0.959	4.98
[B]	93.	344.82	205.19	12.0	7.0	244.85	0.667	23.0	28.0	261.69	0.730	0.959	6.29
[C]	87.	254.79	136.88	12.0	7.0	232.61	0.653	16.0	21.0	238.45	0.708	0.959	8.79
[D]	80.	151.41	83.11	12.0	7.0	209.99	0.626	9.0	14.0	211.18	0.678	0.959	13.29
COP(SEPR) =												9.77	
COP(SEPR LEGAL LIMIT) =												6.75	
ANNUAL ELECTRICITY CONSUMPTION =												1105002.38	kwh/Year

Torben P. Hansen

Signed for and on behalf of

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*prt:8*****
*           S A B R O E           *
*           -----               *
*           Chiller Standard Part Load *
*           -----               *
*           SEPR  Tabulation       *
*           -----               *
* File:CompPAC193LC_Process      Ref.:JAE *
* Date:2019/06/18                Time:11.33.31 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/204504**

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EU Declaration of Conformity

Ecodesign

Manufacturer:

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Unit: ComPAC-193LR-C  
Refrigerant: R717  
Compressor: SAB 193LR  
Evaporator: ESRE 702801  
Condenser: CRRE 701001  
GWP = 0

	Load %	PLoad kW	DPower kW	Ti_evap deg.C	To_evap deg.C	Fl_evap m3/h	PP_evap eff.	Ti_cond deg.C	To_cond deg.C	Fl_cond m3/h	PP_cond eff.	Motor eff.	COP incl. pump
[A]	100.	794.49	258.19	-2.0	-8.0	123.43	0.511	30.0	35.0	161.90	0.733	0.959	2.95
[B]	93.	732.79	197.59	-2.0	-8.0	114.58	0.476	23.0	28.0	147.48	0.711	0.959	3.56
[C]	87.	685.41	149.82	-2.0	-8.0	106.45	0.451	16.0	21.0	136.37	0.694	0.959	4.39
[D]	80.	628.96	105.55	-2.0	-8.0	98.65	0.424	9.0	14.0	123.34	0.671	0.959	5.71
COP(SEPR) =												4.72	
COP(SEPR LEGAL LIMIT) =												3.42	
ANNUAL ELECTRICITY CONSUMPTION =												1247696.50 kWh/Year	

Torben P. Hansen

Signed for and on behalf of



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*prt:2*****
*                S A B R O E                *
*                -----                    *
*                Chiller Standard Part Load  *
*                -----                    *
*                SEER  Tabulation           *
*                -----                    *
* File:Chillpac                Ref.: CSK     *
* Date:2019/06/03              Time:09.08.37 *
* User:JCI/HOLME-YRTP AND SALES TEST USE !  *
*****COMP1-R29.23/004504*****

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EU Declaration of Conformity

Ecodesign

Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
 Christian X's Vej 201, 8270 Højbjerg, Denmark  
 Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2281 for comfort water chillers driven by compressor with electric motor. The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation. Water pumps are fictive and not included in the delivery. Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation. Electrical conversion coefficient = 2,5 and degradation for temperature control = 3% Degradation coefficient Cdc = 0,9 Value tolerances for selection tools comply with EN 12900. Capacity control is variable. Sound power Level to be found in operating manual for the chiller. Specific EER and eta<sub>S,C</sub> are included in the operating manual. Oil reservoir and crankcase heater: 0,500 kW Low temperature application used as standard rating condition (+12/+7 deg.C)

Unit: ChillPAC28V-A  
 Refrigerant: R717  
 Compressor: CMO 28 V  
 Evaporator: ESRE 700451  
 Condenser: CRRE 700321  
 GWP = 0

Tj deg.C	Pdc kW	EERd %
35.0	228.56	4.74
30.0	168.32	5.96
25.0	105.93	7.08
20.0	46.18	6.77
Prated,c (kW) =		228.56
Eta <sub>s,c</sub> (actual %) =		252.
Eta <sub>s,c</sub> (legal %) =		196.

Torben P. Hansen

Signed for and on behalf of

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*prt:3*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEER  Tabulation        *
*           -----             *
* File:Chillpac                    Ref.: CSK *
* Date:2019/06/03                  Time:09.19.27 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/004504**

```

EU Declaration of Conformity

Ecodesign

Manufacturer:

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Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2281 for comfort water chillers driven by compressor with electric motor. The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation. Water pumps are fictive and not included in the delivery. Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation. Electrical conversion coefficient = 2,5 and degradation for temperature control = 3% Degradation coefficient Cdc = 0,9 Value tolerances for selection tools comply with EN 12900. Capacity control is variable. Sound power Level to be found in operating manual for the chiller. Specific EER and eta\_S,C are included in the operating manual. Oil reservoir and crankcase heater: 0,500 kW Low temperature application used as standard rating condition (+12/+7 deg.C)

Unit: ChillPAC112LV-A  
Refrigerant: R717  
Compressor: SMC 112LV  
Evaporator: ESRE 702121  
Condenser: CRRE 701321  
GWP = 0

Tj deg.C	Pdc kW	EERd %
35.0	060.96	5.01
30.0	781.32	6.06
25.0	487.78	7.90
20.0	211.05	8.07
-----		
Prated,c (kW)	=	060.96
Eta_s,c (actual %)	=	279.
Eta_s,c (legal %)	=	227.
-----		

Torben P. Hansen

Signed for and on behalf of

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*prt:2*****
*           S A B R O E           *
*           -----             *
*           Chiller Standard Part Load *
*           -----             *
*           SEER  Tabulation        *
*           -----             *
* File:CompPAC151LA_Comfort      Ref.:JAE *
* Date:2019/06/18                Time:14.17.41 *
* User:JCI/HOLME-YRTP AND SALES TEST USE ! *
*****COMP1-R29.23/204504**

```

EU Declaration of Conformity  
Ecodesign  
Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

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Unit: ComPAC-151LR-A  
Refrigerant: R717  
Compressor: SAB 151LR  
Evaporator: ESRE 701901  
Condenser: CRRE 701251  
GWP = 0

Tj deg.C	Pdc kW	EERd %
35.0	927.48	4.65
30.0	683.98	5.55
25.0	433.09	6.68
20.0	247.49	6.78
-----		
Prated,c (kW)	=	927.48
Eta_s,c (actual %)	=	242.
Eta_s,c (legal %)	=	227.
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Torben P. Hansen

Signed for and on behalf of

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*prt:6*****
*           S A B R O E           *
*           -----           *
*           Chiller Standard Part Load           *
*           -----           *
*           SEER  Tabulation           *
*           -----           *
* File:CompAC193LA_Comfort           Ref.:JAE           *
* Date:2019/06/18                   Time:11.17.20      *
* User:JCI/HOLME-YRTP AND SALES TEST USE !           *
*****COMP1-R29.23/204504*****

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EU Declaration of Conformity

Ecodesign

Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjerg, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2281 for comfort water chillers driven by compressor with electric motor. The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation. Water pumps are fictive and not included in the delivery. Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation. Electrical conversion coefficient = 2,5 and degradation for temperature control = 3% Degradation coefficient Cdc = 0,9 Value tolerances for selection tools comply with EN 12900. Capacity control is variable. Sound power Level to be found in operating manual for the chiller. Specific EER and eta<sub>S,C</sub> are included in the operating manual. Oil reservoir and crankcase heater: 0,500 kW Low temperature application used as standard rating condition (+12/+7 deg.C)

Unit: ComPAC-193LR-A  
Refrigerant: R717  
Compressor: SAB 193LR  
Evaporator: EPSH 7/5HH  
Condenser: CRRE 702361  
GWP = 0

Tj deg.C	Pdc kW	EERd %
35.0	455.06	4.99
30.0	067.70	6.00
25.0	669.18	7.18
20.0	433.67	7.75
-----		
Prated,c (kW)	=	455.06
Eta <sub>s,c</sub> (actual %)	=	265.
Eta <sub>s,c</sub> (legal %)	=	227.
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Torben P. Hansen

Signed for and on behalf of