



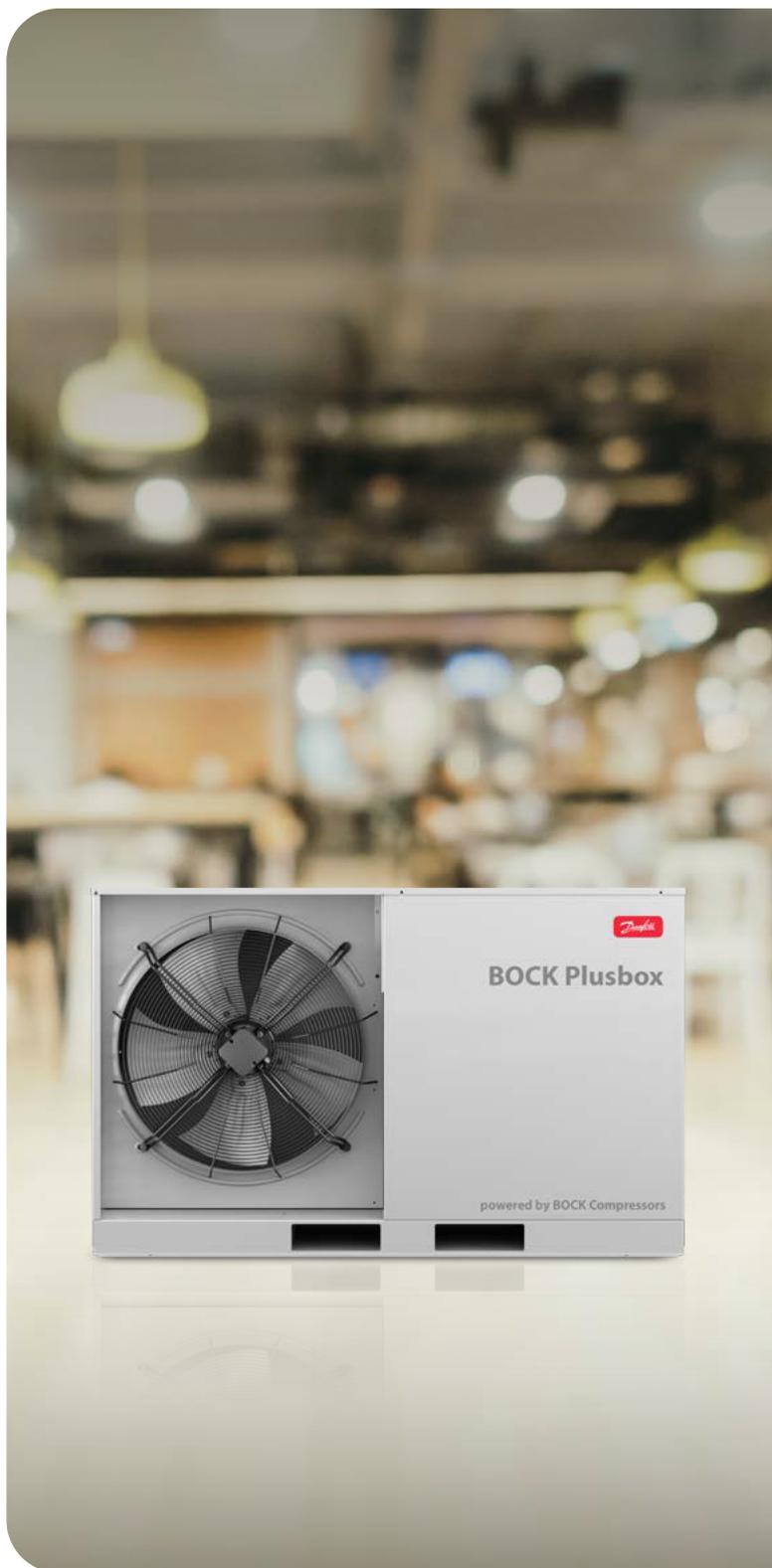
Danfoss BOCK® Plusbox

Plug & Play units powered by Danfoss BOCK® compressors



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Danfoss BOCK® package condensing units

Plug and play, efficient, reliable.

Danfoss BOCK® Plusbox is offering a modular plug and play condensing unit featuring semi-hermetic BOCK® reliable highly efficient technology and generously sized condensers, meeting specific demands even in worst conditions.

With the Plusbox, Danfoss BOCK® presents a series of modular designed outdoor condensing units on the basis of semi-hermetic BOCK® compressors and Danfoss components.

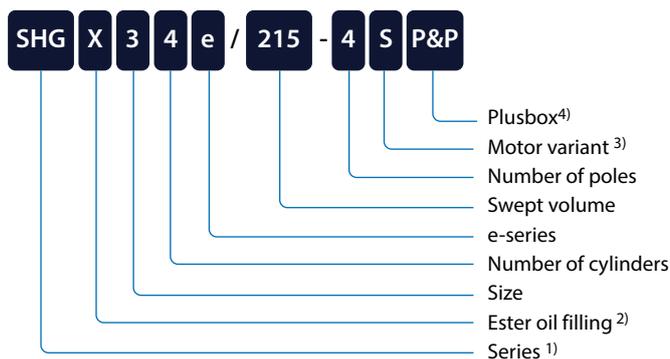
The modular model kit of the Plusbox condensing units enables the system manufacturer to configure the Plusbox individually according to his demands. This way, he can decide on the scope of supply and has for example the choice which control system suits best for his application.

Whether it's, the Plug & Play version or additionally equipped with Danfoss inverter the Plusbox, Danfoss BOCK® offers top components with a fair price/performance ratio that facilitate commission and maintenance.

Danfoss BOCK® offers the Plusbox with BOCK® compressors HG34e, which corresponds to refrigerating capacities of 9 to 20 kW at medium cooling conditions (R449A at -10°C evaporation temperature and 32°C ambient temperature).

Possible applications: cold rooms, display cabinets in convenience stores, mini-markets, restaurants, fisheries, butcheries, bakeries, florists, laboratories, wine cellars, industrial processes, milk cooling, fast-food chains, dairy and general food storage.

Type key – condenser units



- 1) SHG = Hermetic gas-cooled (suction gas-cooled)
- 2) X = Ester oil filling (HFC refrigerants R134a, R404A, R507 and R407)
- 3) S = More powerful motor, e.g. air-conditioning applications
- 4) P&P = Plug & Play

Key advantages

1

BOCK semi-hermetic compressor: Low noise level with very high efficiency and reliability

2

Low noise fan with speed control to ensure low noise and smooth operation

3

Oil differential pressure switch to ensure best in class oil pump lubrication and secure compressor safe operation

4

Engineered for excellence, our dedicated and covered electric switchboard features best-in-class design and wiring for easy, convenient maintenance of all components.



5

Separate acoustically lined enclosure for compressor

6

External main switch for safer maintenance

7

Complete liquid- and suction pipework arrangements

8

Oil separator and frequency drive for energy saving, multi cold room operation and optimized power consumption cold room temperature according to customer needs

Performance data

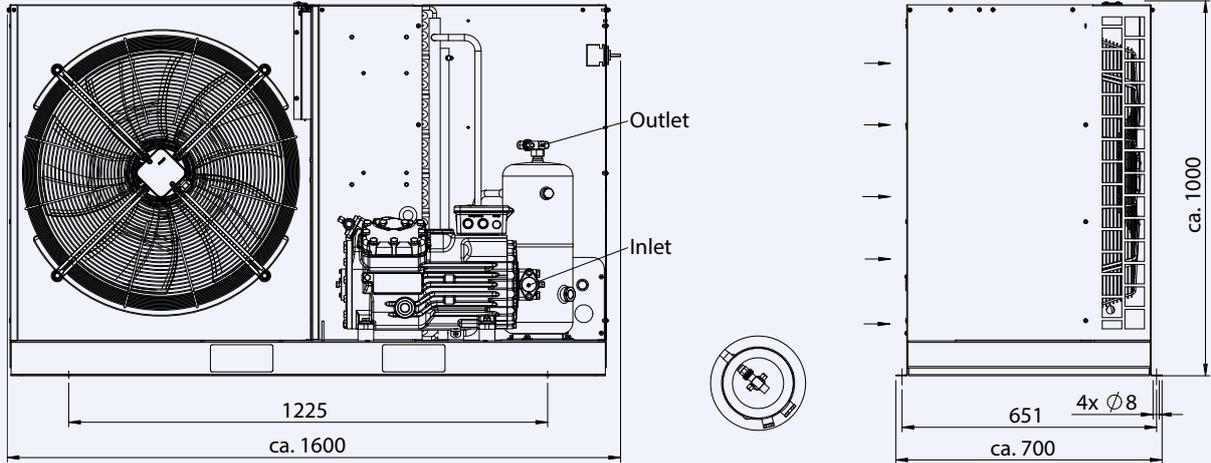
Cooling capacity R449A	Evaporating temp.	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Condensing temp.							
SHGX34e 215-4 P&P	27	2490	3540	4790	6260	7970	9910	12100
	32	2140	3100	4250	5620	7210	9030	11100
	37	1830	2690	3750	5010	6480	8170	10100
	43	1520	2270	3200	4320	5640	7180	8930
SHG34e 255-4 P&P	27	3080	4340	5830	7550	9480	11700	14000
	32	2720	3900	5270	6860	8630	10600	12800
	37	2400	3470	4730	6180	7810	9610	11600
	43	2040	3000	4110	5390	6830	8430	
SHG34e 315-4 P&P	27	3870	5330	7020	8980	11200	13700	16400
	32	3410	4770	6350	8160	10300	12600	15100
	37	2970	4240	5700	7380	9270	11400	13800
	43	2490	3650	4970	6480	8180	10100	
SHG34e 380-4 P&P	27	5180	7000	9090	11500	14300	17300	20600
	32	4620	6330	8290	10600	13100	15900	19100
	37	4080	5690	7520	9600	12000	14600	17500
	43	3480	4970	6640	8530	10700	13100	3.07

EN13215 10K Superheat, SC OK Supplementary cooling or reduced suction gas temperature

Cooling capacity R513A	Evaporating temp.	-20.0	-15.0	-10.0	-5.0	-0.0	5.0	10.0
	Ambient temp.							
SHG34e 215-4 P&P	27	3790	5000	6410	8000	9770	11700	13800
	32	3410	4530	5850	7340	9010	10900	12900
	37	3020	4060	5280	6680	8250	9980	11900
	43	2790	3780	4950	6290	7790	9460	11300
SHG34e 255-4 P&P	27	4410	5830	7480	9330	11400	13600	15900
	32	3990	5320	6870	8600	10600	12600	14800
	37	3590	4830	6260	7890	9670	11700	13700
	43	3120	4240	5550	7030	8670	10500	12400
SHG34e 315-4 P&P	27	5450	7060	8920	11100	13400	15900	18600
	32	4950	6450	8180	10200	12400	14700	17200
	37	4460	5850	7460	9280	11300	13600	15900
	43	3880	5140	6600	8260	10200	12200	14400
SHG34e 380-4 P&P	27	7060	9030	11300	13900	16600	19700	22900
	32	6490	8330	10500	12900	15500	18300	21300
	37	5910	7630	9600	11900	14300	17000	19800
	43	5230	6790	8590	10700	12900	15400	18000

Dimensions

Illustration without access door and cover



SHG ³⁾	Compressor ¹⁾		Fan/Condenser ⁴⁾			Receiver volume	Tube diameter ⁵⁾		Noise level 10m	Net Weight ⁵⁾
	Displ. 50 Hz (1450 rpm)	Max working current	Max. working current 50 Hz	Max. power consump. 50 Hz	Air flow 50 Hz		Liquid line	Suction line		
Type	m ³ /h	A Δ / Y	A	W	m ³ /h	Liter	mm / inch	mm / inch.	dBA	kg
SHG34e/215-4 PB	18.80	14.0/8.1	2.60	600	7895	8.0	12 / ½"	28 / 1⅛"	47	196
SHG34e/215-4 S PB	18.80	18.3/10.5	2.60	600	7895	8.0	12 / ½"	28 / 1⅛"	47	201
SHG34e/255-4 PB	22.10	17.0/9.8	2.60	600	7895	8.0	12 / ½"	28 / 1⅛"	47	195
SHG34e/255-4 S PB	22.10	21.1/12.2	2.60	600	7895	8.0	12 / ½"	28 / 1⅛"	47	200
SHG34e/315-4 PB	27.30	21.1/12.2	2.60	600	7020	8.0	12 / ½"	28 / 1⅛"	47	198
SHG34e/315-4 S PB	27.30	25.5/14.7	2.60	600	7020	10.0	16 / ⅝"	35 / 1⅜"	47	207
SHG34e/380-4 PB	33.10	26.1/15.1	2.60	600	7020	10.0	16 / ⅝"	35 / 1⅜"	47	203
SHG34e/380-4 S PB	33.10	31.2/18.0	2.60	600	7020	10.0	16 / ⅝"	35 / 1⅜"	47	206

¹⁾ Further explanations and technical data see brochure "Semi-hermetic Danfoss BOCK® Compressors".

²⁾ Tolerance (± 10%) relates to the mean value of the voltage range. Other voltages and current types on request.

³⁾ 220-240V Δ / 380-420 V Y – 3-50 Hz

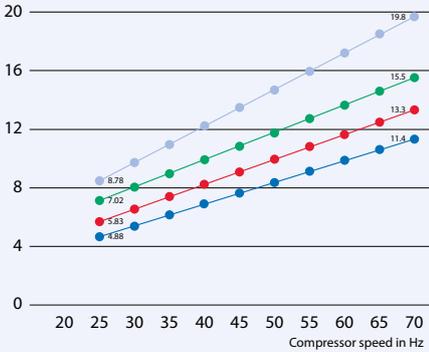
⁴⁾ 230V – 1-50 Hz

⁵⁾ Values for Plug & Play version

Help for quick selection for Danfoss Plusbox variable speed units

R449A MT -10°C

Cooling cap. in kW

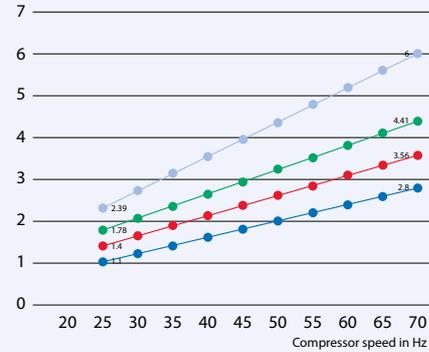


- SHGX34e/215-4
- SHGX34e/255-4
- SHGX34e/315-4
- SHGX34e/380-4

-10°C mean point, 32°C ambient temperature 10K superheat 0K subcooling

R449A LT -35°C

Cooling cap. in kW

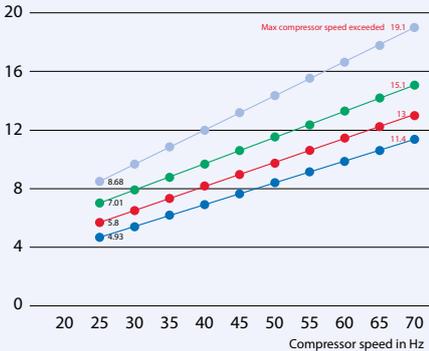


- SHGX34e/215-4
- SHGX34e/255-4
- SHGX34e/315-4
- SHGX34e/380-4

-35°C mean point, 32°C ambient temperature 10K superheat 0K subcooling

R452A MT -10°C

Cooling cap. in kW

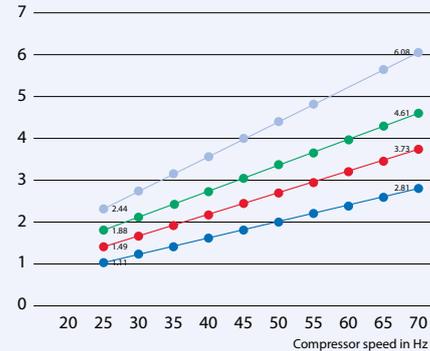


- SHGX34e/215-4
- SHGX34e/255-4
- SHGX34e/315-4
- SHGX34e/380-4

-10°C mean point, 32°C ambient temperature 10K superheat 0K subcooling

R452A LT -35°C

Cooling cap. in kW

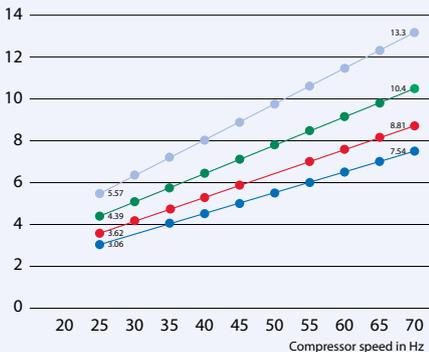


- SHGX34e/215-4
- SHGX34e/255-4
- SHGX34e/315-4
- SHGX34e/380-4

-35°C mean point, 32°C ambient temperature 10K superheat 0K subcooling

R513A MT -10°C

Cooling cap. in kW



- SHGX34e/215-4
- SHGX34e/255-4
- SHGX34e/315-4
- SHGX34e/380-4

-10°C evap, 32°C ambient temperature 10K superheat 0K subcooling



Danfoss BOCK® Service and support

Up-to-date information, training and tools about Danfoss BOCK® CO₂ compressors, compressors for hydrocarbons and solutions for other refrigerants. Use our expertise for your daily practice – online and free of charge.



Select

Go to vap.bock.de, download VAP – compressor selection tool, and select the appropriate compressors or condensing units.



Order

Order BOCK® products at store.danfoss.com or buy the spare parts from BOCKshop via bockshop.bock.de



Learn

Learn about the Danfoss BOCK® portfolio and get product training via learning.danfoss.com



Get product support

Get product support from our certified Service Partners via refcare.danfoss.com



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