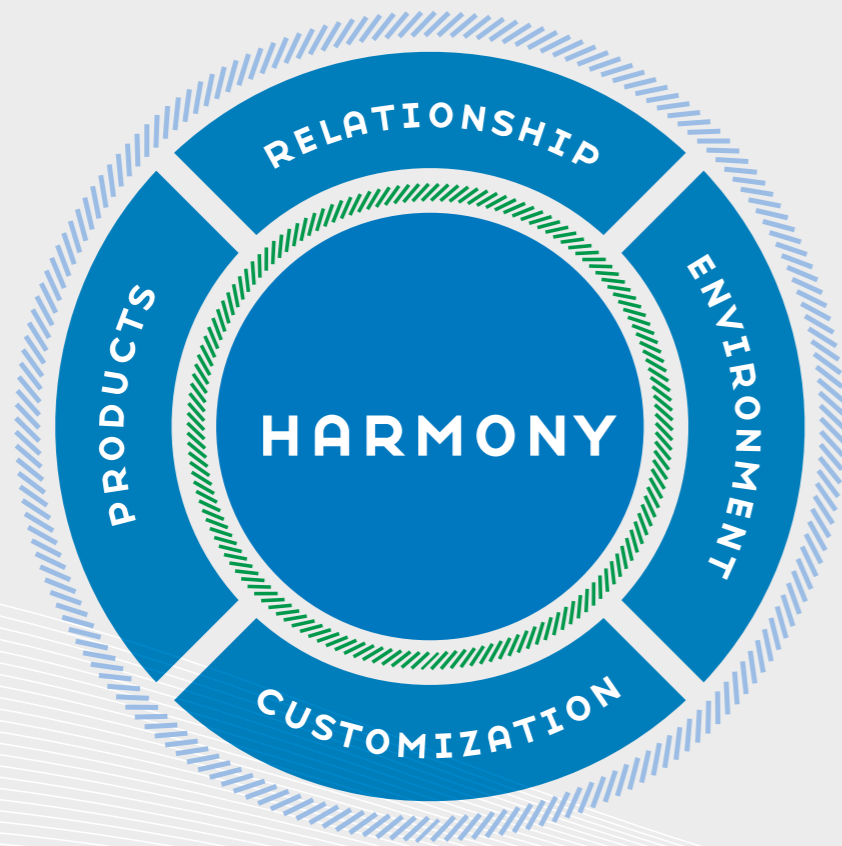




**VACON COMPACT AC DRIVES
CREATING PERFECT HARMONY**



WHAT IS HARMONY?

We see harmony as a state of balance. The feeling that the solution created is the best possible for your specific needs. That the supplier selected is the right one. That there is good communication and an understanding of your needs. That environmental issues are handled in the best possible way.



CREATING PERFECT HARMONY

Drives help improve the control of machines and increase energy efficiency. Selecting the right AC drive is, however, more than just selecting the right product – it is just as much about selecting a supplier with the right attitude towards partnership. Aiming for perfect harmony means selecting the right product, the optimum solution and the best co-operation... And doing it all in harmony with nature.

IT ALL STARTS WITH THE ATTITUDE

We very much understand, and we have seen it so many times, that our success is always a result of our customer's success. When our customer is the winner in his market, we as a partner are also a winner. Realizing this simple fact, we have built our company culture and ways of working around this attitude. Working with Vacon you can be sure that all the efforts are made to reach the best end result – be it product related, solutions related, logistics and support related. This is what makes Vacon your best choice for partnership.

HARMONY IN RELATIONSHIPS

Vacon is a young drives supplier that in a short period of time has grown to be one of the main drives suppliers globally. The Vacon team of drives professionals is here to provide their expertise and skills in order to serve our customers in the best possible way. Our target is a long-term relationship built on confidence and trust – to us that is perfect harmony.

A DEDICATED OEM SUPPLIER

HARMONY IN PRODUCTS

To meet the various needs of our customers we have created a wide range of compact AC products. All the products: Vacon 10, Vacon 20 and Vacon 20 Cold Plate have one major thing in common. They are designed to be efficient and easy to use. Applying the product should be easy, it should fit into the space available for it and we want the installation and configuration time to be as short as possible.

HARMONY IN CUSTOMIZATION

Machinery and products produced in large quantities should be well optimized and efficient. A standard drive solution is not always the optimum solution. We at Vacon have, from the start, developed our working processes in a way that allows us to customize the products to meet customer needs. So if you are a high volume user of drives, contact your local Vacon partner to find out how we can create a world-class drives solution together.



IN HARMONY WITH THE ENVIRONMENT

The use of AC drives is one of the key contributors to energy saving and thus to reduced emissions and pollution. Vacon aims to be an all around environmentally friendly company – our products are a good example of that. You can also see it in our ways of working. We have developed our manufacturing process in order to minimize the impact on the environment. All excess materials in the production and service processes are carefully sorted and recycled.



VACON 10 – AS EASY AS POSSIBLE

The Vacon 10 is an AC drive designed for applications where simplicity and efficiency are the key requirements. When you need a compact AC drive that does its job without extra hassle, the Vacon 10 is the product you should be taking a closer look at.

The leading design feature of the Vacon 10 is simplicity, which means short handling time. It has all the functionality built into one simple unit. Our Vacon 10 customers appreciate a quick setup and compact size.

FAST INSTALLATION

Choose Vacon 10, and benefit from the quick installation process. If the drive is mounted on a DIN rail no screws are required for the fixing. No external components, such as RFI filters etc., are needed as they can all be integrated into the drive.

FAST SETUP

In order to save our customers time, we have created tools to program the Vacon 10 as efficiently as possible. A start-up wizard in the drive allows for programming with as few as three parameters. With the MCA Unit, our customers can clone their drive in seconds - all without connecting main power to the drive.

COMPACT SIZE

The space available for the drive is often limited. It is also a cost factor as providing more space leads to increased cost for the enclosure. The secret behind the compact size of the Vacon 10 is the unique cooling concept of the drive. It is made just like most PC computers - a high efficiency forced cooled heat sink mounted directly onto the power semiconductors.

KEY BENEFITS:

- Short installation time
- Space saving design
- Parameter copying without main power

RATINGS AND DIMENSIONS

Supply voltage	AC drive type	Power		Motor current		Frame size	Dimensions W x H x D		Weight	
		kW	HP	I _N (A)	1.5 x I _N (A)		mm	inches	kg	lb
110-120 VAC, 1-phase (North America only)	VACON0010-1L-0001-1	0.25	0.33	1.7	2.6	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0010-1L-0002-1	0.37	0.5	2.4	3.6					
	VACON0010-1L-0003-1	0.55	0.75	2.8	4.2					
	VACON0010-1L-0004-1	0.75	1	3.7	5.6	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
208-240 VAC, 1-phase	VACON0010-1L-0001-2	0.25	0.33	1.7	2.6	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0010-1L-0002-2	0.37	0.5	2.4	3.6					
	VACON0010-1L-0003-2	0.55	0.75	2.8	4.2					
	VACON0010-1L-0004-2	0.75	1	3.7	5.6					
	VACON0010-1L-0005-2	1.1	1.5	4.8	7.2	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0010-1L-0007-2	1.5	2	7	10.5					
	VACON0010-1L-0009-2	2.2	3	9.6	14.4					
	VACON0010-1L-0009-2	2.2	3	9.6	14.4					
208-240 VAC, 3-phase	VACON0010-3L-0001-2	0.25	0.33	1.7	2.6	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0010-3L-0002-2	0.37	0.5	2.4	3.6					
	VACON0010-3L-0003-2	0.55	0.75	2.8	4.2					
	VACON0010-3L-0004-2	0.75	1	3.7	5.6	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0010-3L-0005-2	1.1	1.5	4.8	7.2					
	VACON0010-3L-0007-2	1.5	2	7	10.5					
380-480 VAC, 3-phase	VACON0010-3L-0011-2	2.2	3	11	16.5	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0010-3L-0001-4	0.37	0.5	1.3	2.0	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0010-3L-0002-4	0.55	0.75	1.9	2.9					
	VACON0010-3L-0003-4	0.75	1	2.4	3.6					
	VACON0010-3L-0004-4	1.1	1.5	3.3	5.0	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0010-3L-0005-4	1.5	2	4.3	6.5					
	VACON0010-3L-0006-4	2.2	3	5.6	8.4					
	VACON0010-3L-0008-4	3	5	7.6	11.4	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0010-3L-0009-4	4	6	9	13.5					
	VACON0010-3L-0012-4	5.5	7.5	12	18.0					
575 VAC, 3-phase (North America only)	VACON0010-3L-0002-7	0.75	1	1.7	2.6	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0010-3L-0003-7	1.5	2	2.7	4.1					
	VACON0010-3L-0004-7	2.2	3	3.9	5.9					
	VACON0010-3L-0006-7	4	5	6.1	9.2					
	VACON0010-3L-0009-7	5.5	7.5	9	13.5					

TYPICAL APPLICATIONS:

- Pumps
- Fans
- Conveyors

TECHNICAL HIGHLIGHTS:

- Easy to use push button interface
- Wide standard I/O
- Temperature controlled cooling fan
- Side by side mounting
- EMC filter built-in
- PI controller built-in



VACON 20 – POSSIBILITIES AND PERFORMANCE

The Vacon 20 AC drive comes packed with functionality and possibilities to bring any machine control to a completely new level. The compact size in combination with a wide power range is the base, but the Vacon 20's possibilities do not end there. A built-in PLC functionality, which is one of the most flexible on the market, makes this product adapt to every task and bring cost savings to the user.

In order for machine builders to be able to compete in an increasingly competitive market, it is important to continuously seek solutions to further improve performance and cost efficiency – Vacon 20 offers new possibilities here.

WIDE POWER RANGE

The Vacon 20 is available in all common voltages in the range of 110-600V. Combined with a wide power range up to 18.5kW /25 HP. The Vacon 20 has something for customers all over the globe. Customers can reduce costs by implementing our harmonized product range and increase efficiency in their manufacturing processes. In currents above 16A the drive is available with a built-in harmonic filtering choke for public networks according to IEC61000-3-12.

CUTTING-EDGE PERFORMANCE

Machinery performance is very much dependent on the performance of the AC drive. In the Vacon 20 we have done our best to cut cycle times and maximize the control performance of the drive. The built-in RS-485 interface offers a cost effective and simple serial control interface for the drive. With optional modules, the Vacon 20 can be connected to almost any fieldbus system including CANOpen, DeviceNet and Profibus DP.

FAST INSTALLATION AND SET-UP

The Vacon 20 is designed for efficient volume manufacturing where every second in installation and configuration time counts. Easy access terminals, built-in DIN rail mounting and the MCA parameter copying tool which can clone settings without main power in the drive are all examples of features that help reduce start-up time.

BUILT-IN PLC FUNCTIONALITY BASED ON IEC61131-3

The built-in PLC functionality presents an opportunity to increase machine performance and save costs. The customer can build his own control logic in the drive and utilize unused I/O of the drive for performing other machine related tasks. Another unique feature of the Vacon 20 is that the parameter list can be freely modified and application specific parameter sets and default settings can be created. By utilizing the opportunities of optimizing the drive control Vacon 20 can help make better and more cost efficient machine designs.

KEY BENEFITS:

- Fieldbus connectivity
- Parameter copying without main power
- Custom-made software possible

RATINGS AND DIMENSIONS

Supply voltage	AC drive type	Power		Motor current		Frame size	Dimensions W x H x D		Weight	
		kW	HP	I _N (A)	1.5 x I _N (A)		mm	inches	kg	lb
110-120 VAC, 1-phase (North America only)	VACON0020-1L-0001-1	0.25	0.33	1.7	2.6	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0020-1L-0002-1	0.37	0.5	2.4	3.6					
	VACON0020-1L-0003-1	0.55	0.75	2.8	4.2					
	VACON0020-1L-0004-1	0.75	1	3.7	5.6	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
208-240 VAC, 1-phase	VACON0020-1L-0005-1	1.1	1.5	4.8	7.2	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0020-1L-0001-2	0.25	0.33	1.7	2.6					
	VACON0020-1L-0002-2	0.37	0.5	2.4	3.6					
	VACON0020-1L-0003-2	0.55	0.75	2.8	4.2	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0020-1L-0004-2	0.75	1	3.7	5.6					
	VACON0020-1L-0005-2	1.1	1.5	4.8	7.2					
VACON0020-1L-0007-2	1.5	2	7	10.5	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18	
VACON0020-1L-0009-2	2.2	3	9.6	14.4						
208-240 VAC, 3-phase	VACON0020-3L-0001-2	0.25	0.33	1.7	2.6	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0020-3L-0002-2	0.37	0.5	2.4	3.6					
	VACON0020-3L-0003-2	0.55	0.75	2.8	4.2					
	VACON0020-3L-0004-2	0.75	1	3.7	5.6	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0020-3L-0005-2	1.1	1.5	4.8	7.2					
	VACON0020-3L-0007-2	1.5	2	7	10.5					
	VACON0020-3L-0011-2	2.2	3	11	16.5	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0020-3L-0017-2	4	5	17.5	26.3					
	VACON0020-3L-0025-2	5.5	7.5	25	37.5	MI4	165 x 370 x 165	6.5 x 14.6 x 6.5	8	18
	VACON0020-3L-0031-2	7.5	10	31	46.5					
	VACON0020-3L-0038-2	11	15	38	57	MI5	165 x 414 x 202	6.5 x 16.3 x 8	10	22
380-480 VAC, 3-phase	VACON0020-3L-0001-4	0.37	0.5	1.3	2.0	MI1	66 x 160 x 99	2.60 x 6.30 x 3.90	0.55	1.21
	VACON0020-3L-0002-4	0.55	0.75	1.9	2.9					
	VACON0020-3L-0003-4	0.75	1	2.4	3.6					
	VACON0020-3L-0004-4	1.1	1.5	3.3	5.0	MI2	90 x 195 x 102	3.54 x 7.68 x 4.02	0.7	1.54
	VACON0020-3L-0005-4	1.5	2	4.3	6.5					
	VACON0020-3L-0006-4	2.2	3	5.6	8.4					
	VACON0020-3L-0008-4	3	5	7.6	11.4	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0020-3L-0009-4	4	6	9	13.5					
	VACON0020-3L-0012-4	5.5	7.5	12	18.0					
	VACON0020-3L-0016-4	7.5	10	16	24	MI4	165 x 370 x 165	6.5 x 14.6 x 6.5	8	18
	VACON0020-3L-0023-4	11	15	23	34.5					
	VACON0020-3L-0031-4	15	20	31	46.5	MI5	165 x 414 x 202	6.5 x 16.3 x 8	10	22
	VACON0020-3L-0038-4	18.5	25	38	57					
575 VAC, 3-phase (North America only)	VACON0020-3L-0002-7	0.75	1	1.7	2.6	MI3	100 x 255 x 109	3.94 x 10.04 x 4.29	0.99	2.18
	VACON0020-3L-0003-7	1.5	2	2.7	4.1					
	VACON0020-3L-0004-7	2.2	3	3.9	5.9					
	VACON0020-3L-0006-7	4	5	6.1	9.2					
	VACON0020-3L-0009-7	5.5	7.5	9	13.5					

TYPICAL APPLICATIONS:

- Pumps & Fans
- Conveyors
- Packaging, processing and washing machines

TECHNICAL HIGHLIGHTS:

- Wide power range up to 18.5kW
- High performance and functionality
- Full I/O + option board support
- Fast installation and setup
- Built-in choke as option in ≥16A types



VACON 20 COLD PLATE – FLEXIBILITY IN COOLING

When the environment is more demanding or there is a cooling media such as liquid already available, the AC drive cooling can also be optimized further. The Vacon 20 Cold Plate shares the control and power topology with the standard Vacon 20 drive, but offers completely new possibilities for creating unique and efficient cooling solutions.

AC drives are extremely energy efficient products; they do however, still generate some heat. The heat loss can sometimes limit the density of the machine design, especially if mounted in a sealed enclosure simply because there is no air circulation. The Vacon 20 Cold Plate design is based around a flat surface of the drive onto which the majority of the heat losses are concentrated. By attaching this surface to a cooling element, i.e. to the “cold plate”, the cooling of the drive can work even under the most demanding circumstances.

USE ANY COOLING MEDIA

As the cooling is done through a clear cooling interface, it is possible to use different cooling media depending on the situation. By attaching the drive to a heat sink with large cooling ribs, a fully passively cooled drive is created. As an alternative, the drive can be mounted on a plate, which is cooled by liquid in order to create a liquid cooled drive solution. Other possible cooling media include different types of refrigerants or metal constructions with a high heat energy conducting mass.

COMPACT SEALED ENCLOSURES

If the heat transport from the drive is not handled through air circulation, but through the heat being conducted out of

the enclosure through a flat metal surface, the sealing of the enclosure is no longer a factor that significantly affects the cooling performance. It is thus possible to create and install the drive enclosure in environments with high amounts of dust and moisture. The Vacon 20 has a unique form that is designed to allow slim and flat enclosure solutions that can be highly integrated in the machine construction to be created.

BUILT-IN PLC FUNCTIONALITY ACCORDING TO IEC61131-3

The Vacon 20 Cold Plate utilizes the advanced control concept of the Vacon 20 product family, offering full control performance and functionality. It also supports the built-in PLC functionality that allows the creation of application-specific software and solutions.

KEY BENEFITS:

- Highest cooling flexibility
- Fast plugging of I/O wiring
- Custom-made software possible

RATINGS AND DIMENSIONS

Supply voltage	AC drive type	Power		Motor Current		Frame size	Dimensions W x H x D		Weight	
		kW	HP	I _N (A)	1.5 x I _N (A)		mm	inches	kg	lb
380-480 VAC, 3-phase	VACON0020-3L-0003-4-CP	0.75	1	2.4	3.6	MS2	133 x 159 x 80	5.24 x 6.26 x 3.15	2	4.4
	VACON0020-3L-0004-4-CP	1.1	1.5	3.3	5.0					
	VACON0020-3L-0005-4-CP	1.5	2	4.3	6.5					
	VACON0020-3L-0006-4-CP	2.2	3	5.6	8.4					
	VACON0020-3L-0008-4-CP	3.0	5	7.6	11.4	MS3	161 x 240 x 83	6.34 x 9.45 x 3.27	3	6.6
	VACON0020-3L-0009-4-CP	4.0	6	9.0	13.5					
	VACON0020-3L-0012-4-CP	5.5	7.5	12.0	18.0					
	VACON0020-3L-0016-4-CP	7.5	10	16.0	24.0					

TYPICAL APPLICATIONS:

- Textile machinery
- Hoists and cranes
- Conveyors in demanding environment
- Compressors and heat pumps

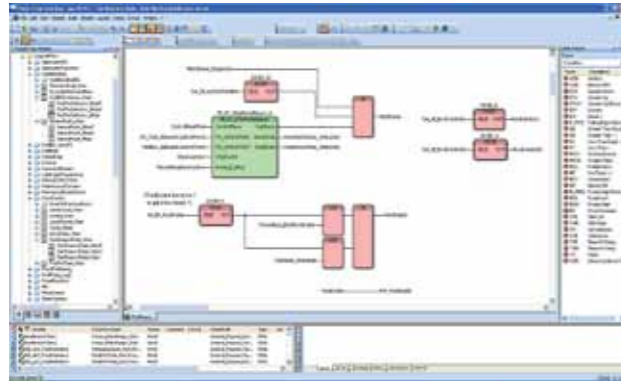
TECHNICAL HIGHLIGHTS:

- Cold plate cooling
- Unique low depth design
- STO - Safe Torque Off according to SIL2
- High performance and functionality
- High ambient temperature rating up to 70°C
- Induction and PM motor support
- Integrated brake resistor
- Status LED's on drive
- Expansion slot for I/O or fieldbus
- Handheld text keypad with copy function
- Single plug I/O connector for OEMs

TAILORING THE SOFTWARE

VACON PROGRAMMING

The Vacon 20 product's built-in PLC functionality and programming is in accordance with IEC61131-3. The optional tool enables the user to modify the drive software by editing the existing application logic or by creating completely new software. The parameter list and default settings are edited with a separate tool.



PC INTERFACE AND PARAMETER COPYING

The MCA (Micro Communications Adapter) is a snap-on and intelligent copying unit for Vacon 10 and Vacon 20 products.

- Parameter copying without main power in the drive
- Download settings directly to the MCA from PC without a drive
- HW interface for PC connection to the drive

The Vacon 20 Cold Plate drive parameter copying is done with the handheld keypad.

I/O CONFIGURATION

Terminal	Description	Vacon 10	Vacon 20	Vacon 20 CP
1	+10 V _{ref} Maximum load 10 mA	•	•	•
2	A11 0-10V	•	•	0-10V / 0(4)-20mA*
3	GND	•	•	•
4	A12 0-10V / 0(4)-20mA*	0(4)-20mA	•	•
5	GND	•	•	•
6	24 V _{out} Max. 50 mA / CP 100 mA	•	•	•
7	GND/DIC*	GND	•	•
8	DI1	•	•	•
9	DI2 0-+30 V R _i = 12 kΩ	•	•	•
10	DI3 Cold Plate R _i = 4 kΩ	•	•	•
13	DOC Digital output common	GND	•	•
14	DI4 0-+30 V R _i = 12 kΩ	•	•	•
15	DI5 Cold Plate R _i = 4 kΩ	•	•	•
16	DI6	•	•	•
18	A0 Analogue output	0(4)-20mA	0-10V / 0(4)-20mA*	0-10V
20	D0 Open collector, max. load 48 V/50 mA	•	•	•
22	RO13-CM Relay output 1	•	•	•
23	RO14-NO	•	•	•
24	RO22-NC	•	•	•
25	RO21-CM Relay output 2	•	•	•
26	RO24-NO	•	•	•
A	A-RS485 Modbus RTU	•	•	•
B	B-RS485 Modbus RTU	•	•	•
ST0	Inputs S1, G1, S2, G2 Feedback F+/F-			•

* Selectable



MCA ADAPTER



OPTION BOARD MOUNTING KIT



KEYPAD DOOR MOUNTING KIT



IP21/NEMA1 KIT

TECHNICAL DATA

Mains connection	Input voltage U _m	110...120 V, -15 %...+10 % 1- 208...240 V, -15 %...+10 % 1- 208...240 V, -15 %...+10 % 3- 380...480 V, -15 %...+10 % 3- 575 V, -15 %...+10 % 3-
	Input frequency	45...66 Hz
	Connection to mains	Once per minute or less (normal case)
Motor connection	Output voltage	0...U _m (2 x U _m with 115 V drives)
	Output current	Continuous rated current I _N at rated ambient temperature overload 1.5 x I _N max. 1 min/10 min
	Starting current / Torque	Current 2 x I _N for 2 secs in every 20 sec period Torque depends on motor
	Output frequency	0...320 Hz
	Frequency resolution	0.01 Hz
Control characteristics	Control method	Frequency Control U/f. Open loop sensorless vector control
	Switching frequency	1.5...16 kHz; Factory default 4 kHz, (575 V model default 2 kHz) Cold Plate models 6 kHz
	Braking torque	100 % x T _N with brake chopper in 3-phase version sizes MS2-3, MI2-5 30 % x T _N with DC-braking. Dynamic flux braking available in all types
Ambient conditions	Ambient operating temperature	-10°C (no frost)...+50°C: rated loadability I _N (1L-0009-2, 3L-0007-2, 3L-0011-2 and with options ENC-IP21-Mix and ENC-IN01-Mix ambient max +40°C) Cold Plate models -10°C...+70°C
	Storage temperature	-40°C...+70°C
	Altitude	100 % load capacity (no derating) up to 1000 m 1 % derating for each 100 m above 1000 m; max. 2000 m Cold Plate max 3000 m
	Enclosure class	MI1-3:IP20, MI4-5:IP21, Cold Plate:IP00
EMC	Immunity	Complies with EN61800-3 (2004)
	Emissions	208-240 V: EMC level C2: with an internal +EMC2 option 380-480 V: EMC level C2: with an internal +EMC2 option
Approvals	EN61800, C-Tick, Gost R, CB, CE, UL, cUL, IEC (not all versions, see unit nameplate for more detailed approvals)	

Factory installed options code	Description	Suitability		
		Vacon 10	Vacon 20	Vacon 20 CP
+EMC2	C2-Level EMC filter (includes +QPES)	•	•	•
+QPES	Cable shield grounding kit	•	•	
+QFLG	Flange mounting kit for MI4 and MI5		•	
+DBIR	Integrated cold plate brake resistor			•

Separately delivered options code	Description	Suitability		
		Vacon 10	Vacon 20	Vacon 20 CP
ENC-SLOT-MC03-13	Option board mounting kit Vacon 20 MI1-MI3		•	
ENC-SLOT-MC03-45	Option board mounting kit Vacon 20 MI4-MI5		•	
ENC-IP21-Mix	IP21 cover MI1-MI3. x=1,2,3	•	•	
ENC-IN01-Mix	Nema 1 Kit MI1-MI5. x=1,2,3,4,5	•	•	
VACON-ADP-MCAA	MCA RS-422 adapter w/ parameter copy	•	•	
VACON-ADP-MCAA-KIT	Complete MCA + USB cable kit	•	•	
CAB-USB/RS-485	USB cable only			•
VACON-ADP-PASSIVE	Passive RS-422 adapter		•	
VACON-PAN-HMDR-MC03	Complete keypad door mounting kit (3.0 m cable)		•	•
VACON-PAN-HMTX-MC06	Magnetic/Handheld keypad (1.0m cable)		•*	•

*Requires VACON-ADP-PASSIVE

TYPE DESIGNATION CODE

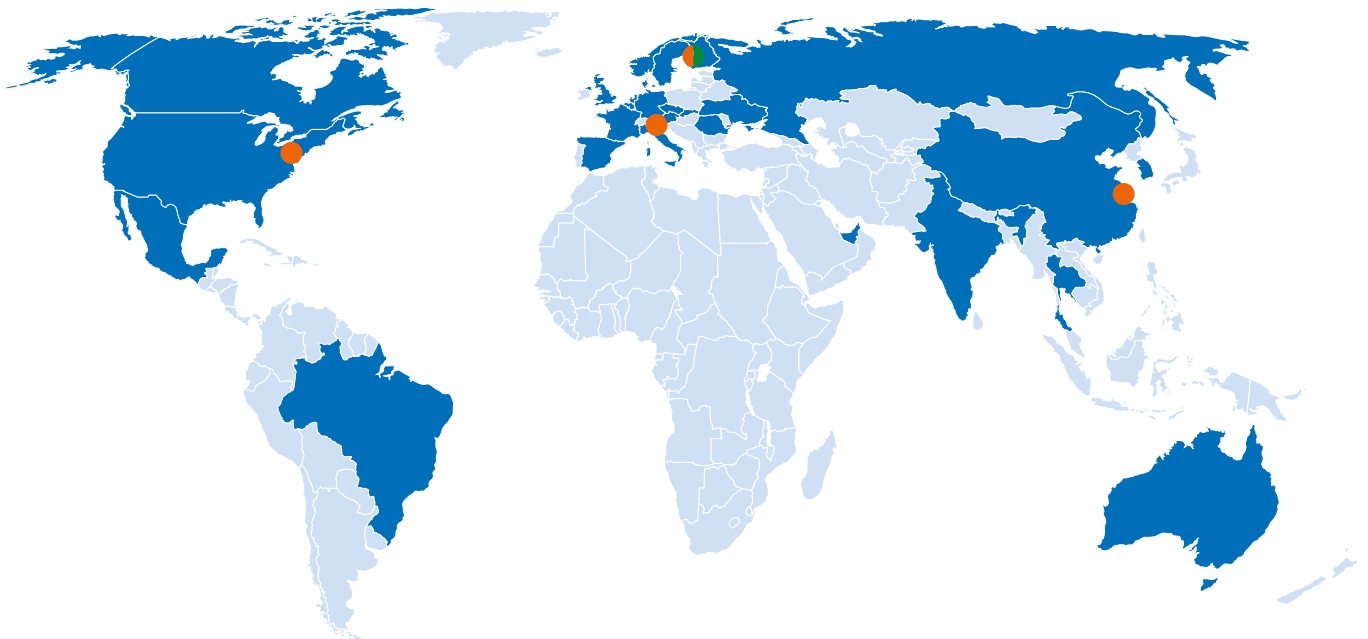
VACON 0020 - 3L - 0009 - 4 - CP + OPTION CODES

Product	Input phase	Current rating	Voltage rating	Version	+ Options
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VACON AT YOUR SERVICE

Vacon is a leading supplier of variable-speed AC drives. Vacon is driven by a passion to develop, manufacture and sell only the best AC drives in the world – and nothing else. AC drives are used to control electric motors as well as for renewable energy generation. Vacon has R&D and production units in Finland, USA, China and Italy, and sales offices in 27 countries. Vacon AC drives are being sold by partners in approximately 100 countries. Vacon's service, solution support and application development is able to serve you locally, wherever you place your business.

VACON – TRULY GLOBAL



● Production and R&D ● Vacon PLC ■ Vacon own sales offices ■ Served by Vacon partner

MANUFACTURING
and R&D on 3 continents

VACON SALES
and services in 27 countries

SERVICE CENTERS
in 52 countries (including partners)

VACON
DRIVEN BY DRIVES

Vacon partner