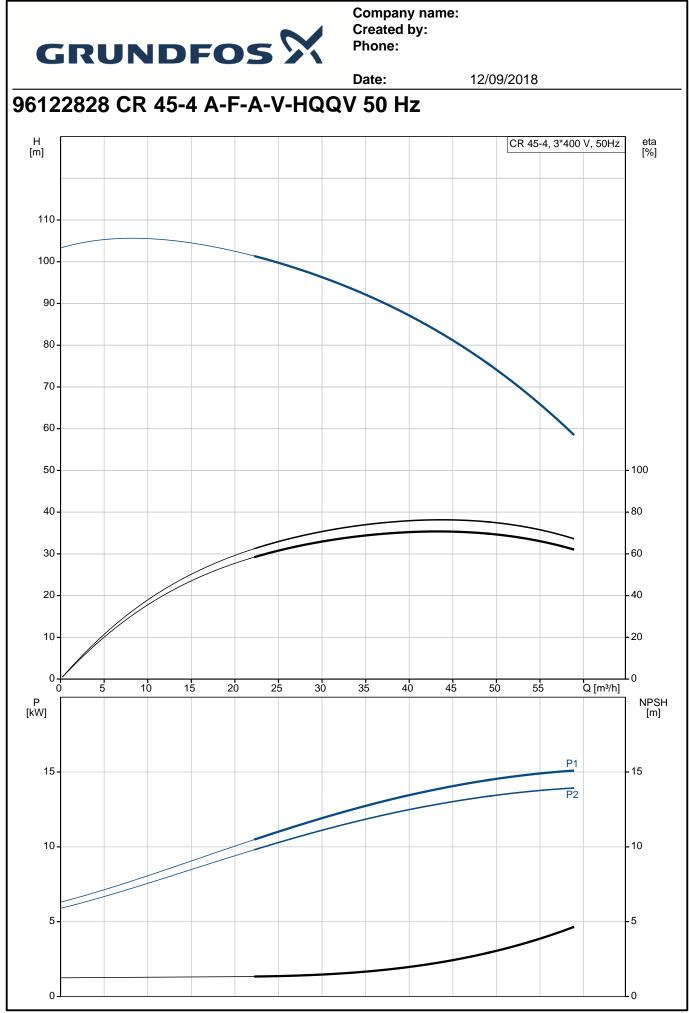
G	R	UNDFOS	Company name: Created by: Phone:					
			Date: 12/09/2018					
Position	Qty.	Description						
	1	CR 45-4 A-F-A-V-HQQV						
		Product No.: 96122828						
		Vertical, multistage centrifugal pump with suction and discharge ports on same the level enabling installation in a horizontal one-pipe system. The pump head and base are in o other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, s and easy service and access. Power transmission is via a rigid split coupling. Pipework via DIN flanges.						
		fan-cooled asynchronous motor.						
		Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operat Density:	Water 2090 °C on: 20 °C 998.2 kg/m³					
		Technical: Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	45 m³/h 79.6 m /ertical Single HQQV CE, EAC SO9906:2012 3B					
		Materials: Base:	Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06					
		Impeller:	Stainless steel EN 1.4301 AISI 304					
		Bearing: Support bearing:	SIC Graflon					
		Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	16 bar 16 bar / 90 °C					
		Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connecti						
		Flange size for motor: Electrical data:	F300					
		Motor standard:	EC					



Company name: Created by: Phone:

			Date:	12/09/2018
sition	Qty.	Description		
		Motor type:	160MD	
		IE Efficiency class:	IE3	
		Rated power - P2:	15 kW	
		Power (P2) required by pump:		
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-415D/660-690Y V	
		Rated current:	28,0-26,0/16,2-15,6 A	
		Starting current:	660-780 %	
		Cos phi - power factor:	0.89-0.87	
		Rated speed:	2930-2950 rpm	
		Efficiency:	IE3 91,9%	
		Motor efficiency at full load:	91.9-91.9 %	
		Motor efficiency at 3/4 load:	92.4 %	
		Motor efficiency at 1/2 load:	92.4 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		Controls:		
		Frequency converter:	NONE	
		Others:		
		Minimum efficiency index, MEI	: 0.7	
		Net weight:	179 kg	
		Gross weight:	212 kg	
		Shipping volume:	0.495 m ³	
		Country of origin:	GB	
		Custom tariff no.:	84137075	
	1			





Company name: Created by: Phone:

Value	H [m]		CR 45-	4, 3*400 V, 50Hz
CR 45-4 A-F-A-V-HQQV	110 -			
96122828				
5700396688725	100 -			
5.414,00 GBP	90 -			
45 m³/h	80 -			
79.6 m	70			
4	/0-			
4	60 -			
Ν	50			
Vertical	50-			
Single	40 -			
HQQV	-			
CE, EAC	- 30 -			
ISO9906:2012 3B	20 -			
Α	-			
В	10-			
	- ₀			
Cast iron	o	10 20 3	0 40	50 Q [m³/h]
EN 1563 EN-GJS-500-7	– P [kW]			
ASTM A536 80-55-06				
Stainless steel	15 -			P1
EN 1.4301	-			P2
	-			
	10-			
V	-			
SIC	5-			
	-			
60 °C	0			
•				
Water				
SSSIZ Ng/III				
IFC				
0.89-0.87 2930-2950 rpm				
	CR 45-4 A-F-A-V-HQQV 96122828 5700396688725 5.414,00 GBP 45 m³/h 79.6 m 4 4 4 4 N Vertical Single HQQV CE, EAC ISO9906:2012 3B A B Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06 Stainless steel EN 1.4301 AISI 304 A V V SIC Graflon 60 °C 16 bar 16 bar 16 bar / 90 °C 16 bar 16 bar 16 bar 9N 80 DN 80 PN 40 FF300 F Water -20 90 °C 20 °C 998.2 kg/m ³ IEC 160MD IE3 15 kW	Value [m] CR 45-4 A-F-A-V-HQQV 96122828 5700396688725 5.414,00 GBP 90 90 45 m³/h 70 79.6 m 4 4 60 70 60 70 60 70 60 70 60 70 60 70 60 70 70 4 60 70 60 70 70 70 70 4 60 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70	Value [m] CR 45-4 A-F-A-V-HQQV 96122828 5700396688725 5.414,00 GBP 4 90 10 90 120 1309906:2012 3B A B Cast iron EN 1563 EN-GJS-506 Stainless steel EN 14301 Alsi 304 A V SIC Grafilon 60 °C 16 bar / 90 °C 16 bar / 90 °C 16 bar / -20 °C 16 bar 16 bar 16 bar <t< td=""><td>Value (m) (m) CR 45-4 A-F-A-V-HQQV 96122828 5700396688725 5 5.414,00 GBP 90 4 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 110 0 110 0 110 0 110 <t< td=""></t<></td></t<>	Value (m) (m) CR 45-4 A-F-A-V-HQQV 96122828 5700396688725 5 5.414,00 GBP 90 4 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 110 0 110 0 110 0 110 <t< td=""></t<>



Company name: Created by: Phone:

Date: 12/09/2018 Description Value Motor efficiency at full load: 91.9-91.9 % Motor efficiency at 3/4 load: 92.4 % Motor efficiency at 1/2 load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor protec: PTC Motor No: 85U17526 Controls: NONE Frequency converter: Others: Minimum efficiency index, MEI : 0.7 Net weight: 179 kg Gross weight: 212 kg 0.495 m³ Shipping volume: Country of origin: GB Custom tariff no .: 84137075

