



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 1N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 7L(45)-143/4,5//S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R						
Unit Code (W):	CV 7P(45)-136/3,0//S1.8V/S3.3/S8.1/S1.8+PE+R						
Design:	Stand	Roof	Cover:	Stand.	Coat.	Insulation:	25 mm 50 mm
	Garage						

*zmiana silnika*

Fan Type	N/RDN 450L	W/RDN 450L	MotorType	M7512P	M7512P
Air volume	13800	m <sup>3</sup> /h 12500	Power	7,5	kW 7,5
Air Δ P ext.	800	Pa 800	Speed	3000	min <sup>-1</sup> 3000
Air Δ P stat.		Pa	Current		A
Air Δ P dynamic		Pa	Voltage	380	V 380
Sound level	90	dB 89	Frequency	38	Hz 33
Efficiency	71	% 69	Insulation		
Speed	2300	min <sup>-1</sup> 2200	Protection		
Power at shaft	5,21	kW 4,05	Belt	SPA	SPA
Pulley	236	mm 160	Pulley	180	mm 224

*czystotłoczący  
folownik*

Exchangers	HI/water			Hs	REC/rotation	Cs
Capacity	101	kW	kW	kW	%	74
Air inlet temp.	4	°C	°C	°C/%	20/45	°C/% -20/100
Air outlet temp.	25	°C	°C	°C/%	-10/	°C/% 10/
Medium in/out	90/70	°C/bar	°C	°C		°C
Medium volume	4,4	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h		m <sup>3</sup> /h
Medium Δ P	12,5	kPa	kPa	kPa		kPa
Connections	32	∅	∅	∅		∅
Air velocity	3,8	m/s	m/s	m/s	2,6	m/s 2,8
Σ Air Δ P	87	Pa	Pa	Pa	96	Pa 102
Material						

Filter Type	N1/FK	W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz
Class	EU3	EU3	EU3	N/ ΔP [Pa]		dB		dB
Air Δ P [Pa]	117	113		W/ ΔP [Pa]		dB		dB

Water Humidifier		Steam Humidifier	
Air inlet [°C/%]		Hum. re. [kg/kg]	
Air out [°C/%]		St. Press. [kPa]	
Efficiency [%]		St. requ. [kg/h]	
Pump. cap. [l/min]		Nr. of Tubes	
Σ Air Δ P [Pa]		Σ Air Δ P [Pa]	

**Accessories supply**

**Accessories exhaust**

Weight: 3124 kg Width: 1400 mm Length 3670 mm  
 Height: 1100 mm Length 3240 mm

VTS Polska Sp. z o.o.  
 ul. Słonecznikowa 2, 81-198 Kosakowo  
 NIP: 204-000-04-50  
 Przedstawicielstwo w Kielcach  
 ul. Manifestu Lipcowego 34, 25-323 Kielce  
 tel.: 041 368-02-11, fax: 041 343-06-77

*Jacek Moxter*



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 2N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 7L(45)-151/5.0//S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R							
Unit Code (W):	CV 7P(45)-148/3.5//S1.8V/S3.3/S8.1/S1.8+PE+R							
Design:	Stand	Roof	Cover:	Stand.	Coat.	Insulation:	25 mm	50 mm
	Garage							

*zmiana silnika*

Fan Type	N/RDN 450L	W/RDN 450L	Motor Type	M7.5/2P	M7.5/2P
Air volume	14500	m <sup>3</sup> /h 14600	Power	7.5	kW 7.5
Air Δ P ext.	800	Pa 800	Speed	3000	min <sup>-1</sup> 3000
Air Δ P stat.		Pa	Current		A
Air Δ P dynamic		Pa	Voltage	380	V 380
Sound level	91	dB 91	Frequency	33	Hz 33
Efficiency	71	% 70	Insulation		
Speed	2300	min <sup>-1</sup> 2300	Protection		
Power at shaft		kW	Belt	SPA	SPZ
Pulley	236	mm 236	Pulley	180	mm 180

*czystość folianka*

Exchangers	HI/water		Hs	REC/rotation	Cs
Capacity	101	kW	kW	kW	% 74
Air inlet temp.	5	°C	°C	°C/% 20/45	°C/% -20/100
Air outlet temp.	25	°C	°C	°C/% -10/	°C/% 10/
Medium in/out	90/70	°C/bar	°C	°C	°C
Medium volume	4,4	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h
Medium Δ P	12,7	kPa	kPa	kPa	kPa
Connections	32	∅	∅	∅	∅
Air velocity	4,1	m/s	m/s	m/s 2,9	m/s 2,9
Σ Air Δ P	96	Pa	Pa	Pa 105	Pa 108
Material					

Filter Type	N1/FK	W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz
Class	EU3	EU3	EU3	N/ ΔP [Pa]		dB		dB
Air Δ P [Pa]	122	120		W/ ΔP [Pa]		dB		dB

Water Humidifier		Steam Humidifier	
Air inlet [°C/%]		Hum. re. [kg/kg]	
Air out [°C/%]		St. Press. [kPa]	
Efficiency [%]		St. requ. [kg/h]	
Pump. cap. [l/min]		Nr. of Tubes	
Σ Air Δ P [Pa]		Σ Air Δ P [Pa]	

**Accessories supply**  
**Accessories exhaust**  
 Weight: 3118 kg Width: 1400 mm Length 3670 mm  
 Height: 1100 mm Length 3240 mm

VTS Polska Sp. z o.o.  
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 tel.: 041 368-02-11, fax: 041 343-06-77

*Jan Moputa*



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 3N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 7L(45)-154/5,0/S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R					
Unit Code (W):	CV 7P(45)-168/4,0/S1.8V/S3.3/S8.1/S1.8+PE+R					
Design:	Stand	Roof	Cover:	Stand.	Coat.	Insulation: 25 mm 50 mm
	Garage					

*zmiana wentylatora!!! zmiana silników*

Fan Type	N/RDN 450 K	W/RDN 450 K	Motor Type	M112P	M112P
Air volume	16500	m <sup>3</sup> /h 17000	Power	11	kW 11
Air Δ P ext.	800	Pa 800	Speed	3000	min <sup>-1</sup> 3000
Air Δ P stat.		Pa	Current		A
Air Δ P dynamic		Pa	Voltage	380	V 380
Sound level	92	dB 93	Frequency	41	Hz 42
Efficiency	69	% 68	Insulation		
Speed	2450	min <sup>-1</sup> 2500	Protection		
Power at shaft		kW	Belt	SPA	SPA
Pulley	236	mm 180	Pulley	180	mm 150

*czystość  
folianka*

Exchangers	HI/water			Hs	REC/rotation	Cs
Capacity	122	kW	kW	kW	% 77	
Air inlet temp.	5	°C	°C	°C/% 20/45	°C/% -20/100	
Air outlet temp.	25	°C	°C	°C/% -11/	°C/% 11/	
Medium in/out	90/70	°C/bar	°C	°C	°C	
Medium volume	5,25	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	
Medium Δ P	15,8	kPa	kPa	kPa	kPa	
Connections	32	∅	∅	∅	∅	
Air velocity		m/s	m/s	m/s	m/s	
Σ Air Δ P		Pa	Pa	Pa	Pa	
Material						

Filter Type	N1/FK	W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz
Class	EU3	EU3	EU3	N/ ΔP [Pa]		dB		dB
Air Δ P [Pa]	124	133		W/ ΔP [Pa]		dB		dB

Water Humidifier	Steam Humidifier
Air inlet [°C/%]	Hum. re. [kg/kg]
Air out [°C/%]	St. Press. [kPa]
Efficiency [%]	St. requ. [kg/h]
Pump. cap. [l/min]	Nr. of Tubes
Σ Air Δ P [Pa]	Σ Air Δ P [Pa]

**Accessories supply**  
**Accessories exhaust**  
 Weight: 3005 kg Width: 1400 mm Length 3670 mm  
 Height: 1100 mm Length 3240 mm

VTS Polska Sp. z o.o.  
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 tel.: 041 363-02-11, fax: 041 343-06-77

*Mech. Moplatow*



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 4N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 8P(45)-176/4,5/S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R						
Unit Code (W):	CV 8L(45)-176/5,5/S1.8V/S3.3/S8.1/S1.8+PE+R						
Design:	Stand	Roof	Cover:	Stand.	Coat.	Insulation: 25 mm   50 mm	
	Garage						

Fan Type	N/RDN 560K		W/RDN 500K		Motor Type	M18,5/4P		M15/2P	
	Air volume	28000	m <sup>3</sup> /h	22000		Power	18,5	kW	15
Air Δ P ext.	800	Pa	800		Speed	1400	min <sup>-1</sup>	3000	
Air Δ P stat.		Pa			Current		A		
Air Δ P dynamic		Pa			Voltage	380	V	380	
Sound level	90	dB	91		Frequency	61	Hz	40	
Efficiency	70	%	73		Insulation				
Speed	1700	min <sup>-1</sup>	2400		Protection				
Power at shaft		kW			Belt	SPB		SPB	
Pulley	180	mm	180		Pulley	236	mm	250	

*czesci odliwa  
folianika*

Exchangers	HI/water		-1 HW2		Hs	REC/rotation		Cs
	Capacity	237	kW	kW		kW	%	
Air inlet temp.	50	°C		°C	°C/%	20/45	°C/%	-20/100
Air outlet temp.	25	°C		°C	°C/%	-11/	°C/%	11/
Medium in/out	90/70	°C/bar		°C	°C		°C	
Medium volume	10,3	m <sup>3</sup> /h		m <sup>3</sup> /h	m <sup>3</sup> /h		m <sup>3</sup> /h	
Medium Δ P	16,2	kPa		kPa	kPa		kPa	
Connections	32	∅		∅	∅		∅	
Air velocity		m/s		m/s	m/s		m/s	
Σ Air Δ P		Pa		Pa	Pa		Pa	
Material								

*Konieczno ograniczono nozownicy!!!*

Filter Type	N1/FK		W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz	
	Class	EU4	EU3	EU3		N/ Δ P [Pa]	dB		dB	
	Air Δ P [Pa]	126	111			W/ Δ P [Pa]	dB		dB	

Water Humidifier		Steam Humidifier	
Air inlet [°C/%]		Hum. re. [kg/kg]	
Air out [°C/%]		St. Press. [kPa]	
Efficiency [%]		St. requ. [kg/h]	
Pump. cap. [l/min]		Nr. of Tubes	
Σ Air Δ P [Pa]		Σ Air Δ P [Pa]	

Accessories supply  
 Accessories exhaust  
 Weight: 3221 kg Width: 1400 mm Length 3880 mm  
 Height: 1400 mm Length 3480 mm

VTS Polska Sp. z o.o.  
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 tel.: 041 368-02-11, fax: 041 343-06-77

*Yelki Koptat*



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 5N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 7L(45)-121/4.5//S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R							
Unit Code (W):	CV 7P(45)-129/4.5//S1.8V/S3.3/S8.1/S1.8+PE+R							
Design:	Stand	Roof	Cover:	Stand.	Coat.	Insulation:	25 mm	50 mm
	Garage							

Fan Type	N/RDN 450L	W/RDN 450L	Motor Type	<i>zmiennowobrotowa M 7,5/2P - M 7,5/2P</i>			
Air volume	<i>14000</i> m <sup>3</sup> /h	<i>14500</i> m <sup>3</sup> /h	Power	<i>7,5</i> kW	<i>7,5</i> kW	<i>7,5</i> kW	
Air Δ P ext.	<i>800</i> Pa	<i>800</i> Pa	Speed	<i>3000</i> min <sup>-1</sup>	<i>3000</i> min <sup>-1</sup>	<i>3000</i> min <sup>-1</sup>	
Air Δ P stat.			Current		A		
Air Δ P dynamic			Voltage	380 V	380 V	380 V	
Sound level	87 dB	89 dB	Frequency	<i>38</i> Hz	<i>39</i> Hz	<i>39</i> Hz	
Efficiency	74 %	74 %	Insulation				
Speed	<i>2800</i> min <sup>-1</sup>	<i>2350</i> min <sup>-1</sup>	Protection				
Power at shaft			Belt	SPA	SPA	SPA	
Pulley	160 mm	224 mm	Pulley	224 mm	160 mm	160 mm	

*zmiennowobrotowa kolebnika*

Exchangers	HI/water			Hs	REC/rotation	Cs
Capacity	<i>100%</i> kW	kW	kW	kW	%	80
Air inlet temp.	<i>3,4</i> °C	°C	°C	°C/%	20/45	°C/% -20/100
Air outlet temp.	25 °C	°C	°C	°C/%	-12/	°C/% 12/
Medium in/out	90/70 °C/bar	°C	°C	°C	°C	°C
Medium volume	<i>4,5</i> m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h
Medium Δ P	<i>13,5</i> kPa	kPa	kPa	kPa	kPa	kPa
Connections	25 ∅	∅	∅	∅	∅	∅
Air velocity		m/s	m/s	m/s	m/s	m/s
Σ Air Δ P		Pa	Pa	Pa	Pa	Pa
Material						

Filter Type	N1/FK	W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz
Class	EU3	EU3	EU3	N/ ΔP [Pa]				
Air Δ P [Pa]	106	110		W/ ΔP [Pa]				

Water Humidifier		Steam Humidifier	
Air inlet [°C/%]		Hum. re. [kg/kg]	
Air out [°C/%]		St. Press. [kPa]	
Efficiency [%]		St. requ. [kg/h]	
Pump. cap. [l/min]		Nr. of Tubes	
Σ Air Δ P [Pa]		Σ Air Δ P [Pa]	

Accessories supply

Accessories exhaust

Weight: 3112 kg Width: 1400 mm Length 3670 mm  
 Height: 1100 mm Length 3240 mm

VTS Polska Sp. z o.o.  
 ul. Słonecznikowa 2, 81-198 Kosakowo  
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 tel.: 041 368-02-11, fax: 041 343-06-77

*Janek Popratko*



Customer:

Offer Nr.: O99114ki  
 Unit Nr.: 6N-W  
 Made by: Piotr Świerczek  
 Date: 22.06.1999

Unit Code (N):	CV 6P(45)-114/4,5//S1.8V/S8.1/S2.11/S9.4/S3.1V+PE+R							
Unit Code (W):	CV 6L(45)-100/3,5//S1.8V/S3.3/S8.1/S1.8+PE+R							
Design:	Stand	Roof	Cover:		Stand.	Coat.	Insulation: 25 mm 50 mm	
	Garage							

Fan Type		<i>wymiaro wentylatora</i>		MotorType		<i>zmianno silnikowy</i>	
		N/RDN 450K	W/RDN 450K			M11/2P	M7,5/2P
Air volume	17000	m <sup>3</sup> /h	11500	Power	11	kW	7,5
Air Δ P ext.	800	Pa	800	Speed	3000	min <sup>-1</sup>	3000
Air Δ P stat.		Pa		Current		A	
Air Δ P dynamic		Pa		Voltage	380	V	380
Sound level	90	dB	89	Frequency	43	Hz	36
Efficiency	70	%	74	Insulation			
Speed	2600	min <sup>-1</sup>	2200	Protection			
Power at shaft		kW		Belt	SPA		SPA
Pulley	200	mm	224	Pulley	160	mm	160

*czystość wyc  
 falownik*

Exchangers	HI/water			Hs	REC/rotation	Cs	
	Capacity	144	kW	kW	kW	%	73
Air inlet temp.	70	°C	°C	°C/%	20/45	°C/%	-20/100
Air outlet temp.	25	°C	°C	°C/%	-9/	°C/%	9/
Medium in/out	90/70	°C/bar	°C	°C	°C	°C	
Medium volume	6,45	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h	
Medium Δ P	26,3	kPa	kPa	kPa	kPa	kPa	
Connections	25	∅	∅	∅	∅	∅	
Air velocity		m/s	m/s	m/s	m/s	m/s	
Σ Air Δ P		Pa	Pa	Pa	Pa	Pa	
Material							

Filter Type	N1/FK		W1/FK	W2/	Sound Atten.	125 Hz	250 Hz	500 Hz	1000 Hz	
	Class	EU3	EU3	EU3		N/ ΔP [Pa]	dB		dB	
	Air Δ P [Pa]	136				W/ ΔP [Pa]	dB		dB	

Water Humidifier		Steam Humidifier	
Air inlet [°C/%]		Hum. re. [kg/kg]	
Air out [°C/%]		St. Press. [kPa]	
Efficiency [%]		St. requ. [kg/h]	
Pump. cap. [l/min]		Nr. of Tubes	
Σ Air Δ P [Pa]		Σ Air Δ P [Pa]	

**Accessories supply**  
**Accessories exhaust**  
 Weight: 2197 kg Width: 1100 mm Length 3530 mm  
 Height: 1100 mm Length 3100 mm

VTS Polska Sp. z o.o.  
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*Jan Rokita*