

Beijer Ref India – Value HVAC & R Tools & Instruments Training-(2022)





Types of Tools

Tubing Tools
Refrigeration tools
Instruments





Tubing Tools

1. Tube cutter - VTC-19 (1/8" - ¾")
VTC-28 (1/8" - 1 1/8")

VTC-28B (1/8" - 1 1/8")

VTC-32 (1/8" - 1 1/4")

VTC-42 (1/4" - 1 5/8")



- 2. Ratchet wrench VRT-201¼" 5/16"
- 3. Deburrer Round (4 to 40mm.)

Pencil type



4. Flaring Tool - VFT-808-IN





1. Charging hoses -

- a) VRP-22 134A-36-RYB (3 X ¼" ¼" Connection)
- b) VRP-410A-36-RYB (1 X ¼" ¼" & 2 X ¼"-5/16" Connection)
- c) VRP-22 134A-60-RYB (3 X ¼" ¼" Connection)
- d) VRP-410A-60-RYB (1 X ¼" ¼" & 2 X ¼"-5/16" Connection)

Note:-

- i) Working pressure for R22/ R134A/ R12 hoses: 0 500 psi
- ii) Working pressure for R410A hoses : 0 800 psi
- iii) R32 refrigerant has same working pressure as R410A. So hoses for R410A can be used for R32.





2. Gauges-

68 mm. dia Single Gauge Manifold(For gases R410A,R134A,R22,R407C,R404A)					
Low pre	ssure	High Pressure			
Without sight glass	With Sight glass	Without sight glass	With Sight glass		
VMG-1-U-L	VMG-1-S-L	VMG-1-U-H	VMG-1-S-H		

	Double Gauge Manifold	
For gases R22,R404,R407C,R134A		With sight glass - For Gas - R32
VMG-2-R22-B-03	VMG-2-R410A-B-03	VMG-2-R32





Refrigerant Charging Scale –

Available in two models in both - 50 and 100 kG capacity:

VES-50A/VES-100A & **VES-50B/VES-100B**

The difference – The models **VES-50B/VES-100B have**

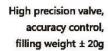
Auto shut-off





Quantitative Filling Precision Control Easy Operation Schematic







The recovery/ recycling weight can be set, convenient for operation



Model	VES-50B	VES-100B		
Weighting range	50Kg	100Kg		
Resolution	2 g	5 g		
Accuracy	±0.05% F.S			
Display	LCD			
Power	DC 9V/AC(100V~230V)			
Working environment	-10°C~40°C,≤75% Humic	-10°C~40°C,≤75% Humidity		
Platform size	237×237 mm			
Weight	6.5 Kg			
Automatic shut-off	Yes			





3. Refrigerant Recovery unit-

Mini Recovery Unit VRR12L

One Key Operation

- One key operation, easy to use
- Equipped with high pressure protection
- Oil-less compressor
- Self-purge function
- 13.0 Kg, easy to carry

Mini Recovery Unit VRR24L

Lighter • Faster

- One key operation, easy to use
- Equipped with high pressure protection
- 80% over filling protection
- Twin-piston, oil-less compressor, faster recovery
- Self-purge function





Note: Both the above models are available with Oil separator option.





Specifications

Model		VRR12L	VRR12L			VRR12LOS			
Category III: R12,R			R12,R134	2,R134a,R401C,R500					
Refrigerants	Refrigerants			Category IV: R22,R401A, R401B, R402B, R407C, R407D, R408A,R409A,R411A R411B,R412A,R502,R509					
		Category V: R	Category V: R402A,R404A,R407A,R407B,R410A,R						
Power Supply		220V-240V~/50	220V-240V~/50-60Hz 11		/60Hz	220V-240V~/50	-60Hz	115V~	/60Hz
Motor		3/4 HP	IP 3/4		•	3/4 HP		3/4 HP	
Motor Speed		1450rpm/1750r	1750rpm 1750		om	1450rpm/1750rpm		1750rpm	
Maximal Current	Draw	4A		8A		4A		8A	
Compressor		Oil-less, Air-co	oled, Pisto	n style			-		
Automatic safety	/ Shut-Off	38.5bar/3850kl	Pa(558psi)					
		Category III	Catego	ory IV	Category V	Category III	Categ	ory IV	Category \
Recovery Rate	Vapor	0.20	0.25		0.25	0.20	0.25	-	0.25
(Kg/min)	Liquid	1.60	1.80		2.20	1.60	1.80		2.20
	Push/pull	4.60	5.60		6.30	4.60	5.60	- 8	6.30
Operating Tempe	erature	0°C~40°C							
Dimensions		450×250×355n	nm			52			
Weight		13.0 Kg				14.2 Kg			





Specifications

Model		VRR24L	VRR24L			VRR24L-OS			
		Category III: R12,R134a,R401C,R500							
Refrigerants		Category IV: R22,R401A, R401B, R402B, R407C, R407D, R408A,R409A,R411A R411B,R412A,R502,R509							
		Category V: R402A,R404A,R407A,R407B,R410A,R507							
Power Supply	3	220V-240V~/50	0-60Hz	115V-	-/60Hz	220V-240V~/50	-60Hz	115V~	/60Hz
Motor		1 HP	1 HP			1 HP		1 HP	
Motor Speed		1450rpm/1750r	lrpm/1750rpm 1750rp		pm	1450rpm/1750rpm		1750rpm	
Maximal Current Draw		5A	10A			5A		10A	
Compressor		Oil-less, Air-cooled, Piston style							
Automatic safety	/ Shut-Off	38.5bar/3850kl	Pa(558psi)					
		Category III	Catego	ory IV	Category V	Category III	Catego	ory IV	Category V
Recovery Rate	Vapor	0.40	0.50		0.50	0.40	0.50		0.50
(Kg/min)	Liquid	3.00	3.50		3.50	3.00	3.50		3.50
	Push/pull	7.50	8.50		9.50	7.50	8.50	10	9.50
Operating Tempo	erature	0°C~40°C				.t		100	
Dimensions		450×250×355n	450×250×355mm						
Weight 13.5 Kg					14.7 Kg				





Other Types of Recovery Units

Recovery unit for R32 gas - Mini recovery unit :

VRR12L-R32 (with single piston) & VRR24L-R32 (with double piston)

Common features:

- Suitable for 1234yf and r32 refrigerant
- One key operation, easy to use
- No spark ryariant.

M Series Recovery Units with Brushless motor -

- Brushless motor, energy saving
- One key operation, easy to use
- Digital gauge, easy to read
- Equipped with high, low pressure protection
- self-purge function
- One-piston, brushless DC motor 3/4HP
- Two-piston, brushless DC motor 1HP







Vacuum Pump

VE N Series –

Single Stage

Model		VE115N	VE125N	VE135N
	to to take page 1	1.8 CFM	2.5 CFM	3.5 CFM
Flow	50Hz	51 L/min	70 L/min	100 L/min
Rate	60Hz	2.0 CFM	3.0 CFM	4.0 CFM
	00112	57 L/min	84 L/min	113 L/min
Ultimate	Partial Pressure	2 Pa	2 Pa	2 Pa
Vacuum	Total Pressure	150 micron	150 micron	150 micron
Power		1/4 HP	1/4 HP	1/3 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4"&3/8" Flare
Oil Capa	city	250 ml	250 ml	250 ml
Dimensio	ons	290x124x224 mm	290x124x224 mm	318x124x234 mm
Weight		6.6 Kg	7.1 Kg	8.0 Kg

Dual Stage

Model		VE215N	VE225N	VE245N	VE260N	VE280N	VE2100N
		1.5 CFM	2.5 CFM	4.5 CFM	6.0 CFM	8.0 CFM	10.0 CFM
Flow	50Hz	42 L/min	70 L/min	128 L/min	170 L/min	226 L/min	283 L/min
Rate	60Hz	1.8 CFM	3.0 CFM	5.0 CFM	7.0 CFM	9.0 CFM	12.0 CFM
	00H2	50 L/min	84 L/min	142 L/min	198 L/min	254 L/min	340 L/min
Ultimate	Partial Pressure	2x10" Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa
Vacuum	Total Pressure	15 micron	15 micron	15 micron	15micron	15 micron	15 micron
Power		1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4"&3/8" Flare	1/4"&3/8" Flare	1/4"&3/8" Flare	1/4"&3/8" Flare
Oil Capa	city	200 ml	200 ml	325 ml	580 ml	500 ml	590 ml
Dimensio	ons	308x124x224 mm	318x124x234 mm	338x138x244 mm	395x145x257 mm	395x145x257 mm	395x145x257 mm
Weight		7.5 Kg	8.5 Kg	10.4 Kg	15.8 Kg	16.2 Kg	16.7 Kg

Note: Also available in 6 and 8 CFM





V-i Series with Vacuum Gauge & Anti Backflow Valve

Suitable for R410A, R407c, R134a, R12, R22 refrigerant

Single Stage

Model		V-i120SV	V-i140SV	V-i160SV	V-i180SV
	EQU-	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM
Flow	50Hz	51 L/min	100 L/min	142 L/min	198 L/min
Rate	60Hz	2.0 CFM	4.0 CFM	6.0 CFM	8.0 CFM
	60H2	57 L/min	113 L/min	170 L/min	226 L/min
Ultimate	Partial Pressure	2 Pa	2 Pa	2 Pa	2 Pa
Vacuum	Total Pressure	150 micron	150 micron	150 micron	150 micron
Power		1/4 HP	1/3 HP	1/2 HP	3/4 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4" Flare	1/4" Flare
Oil Capac	ity	250 ml	250 ml	415 ml	660 ml
Dimension	ns	290x124x255 mm	318x124x265 mm	338x138x275 mm	395x145x318 mm
Weight		6.7 Kg	8.6 Kg	10.3 Kg	15.4 Kg

Dual Stage

Model		V-i220SV	V-i240SV	V-i260SV	V-i280SV
	FOUL-	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM
Flow	50Hz	51 L/min	100 L/min	142 L/min	198 L/min
Rate	60Hz	2.0 CFM	4.0 CFM	6.0 CFM	8.0 CFM
	60HZ	57 L/min	113 L/min	170 L/min	226 L/min
Ultimate	Partial Pressure	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa	2x10 ⁻¹ Pa
Vacuum	Total Pressure	15 micron	15 micron	15 micron	15micron
Power		1/3 HP	1/2 HP	3/4 HP	1 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4" Flare	1/4" Flare
Oil Capac	ity	200 ml	325 ml	580 ml	500 ml
Dimension	ns	318x124x265 mm	338x138x275 mm	395x145x318 mm	395x145x318 mm
Weight		9.0 Kg	11.0 Kg	16.6 Kg	17.0 Kg





VRD & VP Series - Industrial Vacuum Pump

Specification

Model		VRD-16	VRD-24	VRD-30
Displacement speed	50 Hz	16 (4.4)	24(6.6)	30(8.3)
m³/h	60 Hz	19.2 (5.2)	28.8 (7.9)	36 (9.9)
Ultimate partial pressure gas	ballast close	4x10° Pa	4x10² Pa	4x10 ⁻² Pa
Ultimate total pressure gas ba	illast close	4x10 ⁻¹ Pa	4x10 ⁻¹ Pa	4x10 ⁻¹ Pa
Ultimate total pressure gas ballast open		8x10 ⁻¹ Pa	8x10 ⁻¹ Pa	8x10 ⁻¹ Pa
Power supply		single/3-ph	single/3-ph	single/3-ph
Power rating(kw)		0.75kW/0.55kW	1.1kW/0.75kW	1.1kW
Inlet and exhaust DN		KF25	KF25/40	KF25/40
Oil capacity(L)		0.9~1.5L	1.3~2.0L	1.3~2.0L
M-4	50 Hz	1440	1440	1440
Motor speed (rpm)	60 Hz	1720	1720	1720
Ambient temperature		5~40°C	5~40°C	5~40°C
Noise level (dB)		≤58	≤58	≤58
Weight(Kg)	Weight(Kg)		36Kg	37Kg









Leak Detector VLD-2 For CFC/HCFC/HFC



Sound Level Meter VSM351

INSTRUMENTS

Battery:	4X1.5V AABattery
Battery life :	>8hours
Sensitivity :	≤3g/year
Sensor life :	1year(normal use)
Ambit temperature :	0-40℃
Calibration:	Automatic
Respond time :	≤3 Second
Probe length :	400mm
Dimension :	230mmX83mmx50mm
Weight:	380g

Model:	VSM351
Noise measurement scope:	30-130dB
Dimensions:	272X70X39mm
Weight:	386g









Infrared Thermometer VIT-300S

- Emissivty: 0.95
- Temperature range: -32°C~400°C
- Max measuring accuracy: ±2℃ or ±2%
- Ambient operation temperature: 23°C±2°C
- Resolution: 0.1
- Response time: 500 ms
- Weight: 185 g

INSTRUMENTS



Anemometer VAM361

Model:	VAM361
Wind speed measurement scope:	2-30m/s
Dimensions:	166X80X35mn
Weight:	375g

Rotating speed meter VRM371

Mod	lel:	VRM371
Rang	ge:	0~99999r/min
Dim	ensions:	184X56X34mm
Weig	ght:	100g (excluding battery)







Thank you