

# Vacuum Distillation Units

## Models VRA-50, VRA-150, VRA-250



LRA-250

### Key Design Features:

- Fully automatic operation, 24 hours
- Vessel made of stainless steel
- Profile base frame and sheet metal covering made of anodized aluminium
- Safety closure with O-ring seal
- Integrated Ex-proof vacuum unit
- Integrated Ex-proof thermo-oil heating
- Explosion-proof  $\text{Ex II 2 G c T3}$  according to ATEX-Directive 94/9/EC (ATEX 95)
- Switch cabinet with Programmable Logic Controller (PLC), display- and operating-terminal
- Including cable loom from unit to switch cabinet

### Options (Examples):

- Remote maintenance via modem
- Higher protection  $\text{Ex II 1/2 G c T3}$  (ATEX 94/9/EC)
- Anti-adhesive coating
- Ex-proof vessel lighting fixture
- Drain valve for liquid residues
- Collecting tray with grating
- Vacuum pumps for vacuum down to 10 mbar
- Integrated tanks for clean and polluted solvent

Model	VRA-50	VRA-150	VRA-250
Overall capacity	50 l	150 l	250 l
Operating capacity min. - max.	25 - 30 l	75 - 100 l	140 - 170 l
Nominal distillation rate, depending on solvent and degree of pollution	8 - 20 l/h	25 - 60 l/h	30 - 80 l/h
Operating temperature	max. 200 °C	max. 200 °C	max. 200 °C
Operating pressure	-1,0 to +0,5 bar	-1,0 to +0,5 bar	-1,0 to +0,5 bar
Thermo-oil heating	integrated	integrated	integrated
Protection class ATEX 94/9/EC	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$
Voltage, frequency (others upon request)	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz
Operating power input - heating	5,0 kW	13,0 kW	20,0 kW
Overall power input, average	2,9 kW	6,0 kW	11,0 kW
Overall width	600 mm	750 mm	850 mm
Overall height	1800 mm	1800 mm	1800 mm
Overall depth	1420 mm	2000 mm	2000 mm
Net weight approx.	250 kg	400 kg	500 kg
<b>Corresponding Vacuum Units</b>	<b>LÖ/V 6</b>	<b>LÖ/V 30</b>	<b>LÖ/V 30</b>
Vacuum pressure max.	80 mbar	50 mbar	50 mbar
Max. suction capacity at 15 °C	10 m <sup>3</sup> /h	30 m <sup>3</sup> /h	30 m <sup>3</sup> /h
Weight approx.	50 kg	65 kg	65 kg



LRA-50 / LRA-150

Specifications subject to alteration. Technical specifications are to be considered as an orientation, since each unit is developed and manufactured specifically according to your needs. We will gladly send you prices upon your request.

## Vacuum Distillation Units

### Models VRA-400, VRA-600



#### Key Design Features:

- Fully automatic operation, 24 hours
- Vessel made of stainless steel
- Powder-coated or aluminium profile base frame
- Safety closure
- Integrated Ex-proof vacuum unit
- Integrated Ex-proof thermo-oil heating
- Explosion-proof  $\text{Ex II 2 G c T3}$  according to ATEX-Directive 94/9/EC (ATEX 95)
- Electropneumatical residue slider with 200 mm nominal length
- Ex-proof stirrer / abrasive system, spring-loaded, adjustable
- Switch cabinet with Programmable Logic Controller (PLC), display- and operating-terminal
- Including cable loom from unit to switch cabinet

#### Options (Examples):

- Explosion-proof operating and display touch pad
- Remote maintenance via modem
- Higher protection  $\text{Ex II 1/2 G c T3}$  (ATEX 94/9/EC)
- Steam heating
- Safety collecting tray
- Adapted tanks for clean and polluted solvent

Model	VRA-400	VRA-600
Overall capacity	400 l	600 l
Operating capacity min. - max.	250 - 300 l	350 - 450 l
Nominal distillation rate, depending on solvent and degree of pollution	60 - 140 l/h	80 - 180 l/h
Operating temperature	max. 200 °C	max. 200 °C
Operating pressure	-1,0 to +0,5 bar	-1,0 to +0,5 bar
Thermo-oil heating	integrated	integrated
Protection class ATEX 94/9/EC	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$
Voltage, frequency (others upon request)	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz
Operating power input - heating	30,0 kW	40,0 kW
Overall power input, average	16,0 kW	21,0 kW
Overall width	2400 mm	2800 mm
Overall height	2800 mm	3200 mm
Overall depth	1600 mm	1700 mm
Net weight approx.	800 kg	900 kg
<b>Corresponding Vacuum Units</b>	<b>LÖ/V 30</b>	<b>LÖ/V 30</b>
Vacuum pressure max.	50 mbar	50 mbar
Max. suction capacity at 15 °C	30 m³/h	30 m³/h
Weight approx.	80 kg	80 kg



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## Vacuum Distillation Units

Models VRA-1200, VRA-1600, VRA-2000, VRA-3000



### Key Design Features:

- Fully automatic operation, 24 hours
- Vessel made of stainless steel
- Powder-coated or aluminium profile base frame
- Safety closure
- Integrated Ex-proof vacuum unit
- External Ex-proof thermo-oil heating
- Explosion-proof  $\text{Ex II 2 G c T3}$  according to ATEX-Directive 94/9/EC (ATEX 95)
- Electropneumatical residue slider with 200 mm nominal length
- Ex-proof stirrer / abrasive system, spring-loaded, adjustable
- Switch cabinet with Programmable Logic Controller (PLC), display- and operating-terminal
- Including cable loom from unit to switch cabinet

### Options (Examples):

- Explosion-proof operating and display touch pad
- Remote maintenance via modem
- Higher protection  $\text{Ex II 1/2 G c T3}$  (ATEX 94/9/EC)
- Steam heating
- Safety collecting tray
- Adapted tanks for clean and polluted solvent

Model	VRA-1200	VRA-1600	VRA-2000	VRA-3000
Overall capacity	1200 l	1600 l	2000 l	3000 l
Operating capacity min. - max.	700 - 900 l	1000 - 1200 l	1200 - 1500 l	1800 - 2200 l
Nominal distillation rate, depending on solvent and degree of pollution	120 - 280 l/h	150 - 350 l/h	200 - 500 l/h	300 - 800 l/h
Operating temperature	max. 200 °C	max. 200 °C	max. 200 °C	max. 200 °C
Operating pressure	-1,0 to +0,5 bar	-1,0 to +0,5 bar	-1,0 to +0,5 bar	-1,0 to +0,5 bar
Thermo-oil heating	external	external	external	external
Protection class ATEX 94/9/EC	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$	$\text{Ex II 2 G c T3}$
Voltage, frequency (others upon request)	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz	400 V, 3 Ph, 50 Hz
Operating power input - heating	60,0 kW	70,0 kW	80,0 kW	100,0 kW
Overall power input, average	31,0 kW	41,0 kW	43,0 kW	55,0 kW
Overall width	2800 mm	2800 mm	2800 mm	3200 mm
Overall height	3900 mm	4100 mm	4300 mm	4600 mm
Overall depth	1700 mm	1700 mm	1700 mm	2000 mm
Net weight approx.	1400 kg	1500 kg	1600 kg	2000 kg
<b>Corresponding Vacuum Units</b>	<b>LÖ/V 55</b>	<b>LÖ/V 55</b>	<b>LÖ/V 95</b>	<b>LÖ/V 125</b>
Vacuum pressure max.	50 mbar	50 mbar	50 mbar	50 mbar
Max. suction capacity at 15 °C	55 m³/h	55 m³/h	95 m³/h	130 m³/h
Weight approx.	95 kg	100 kg	115 kg	140 kg

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# 真空蒸馏装置

## 型号 VRA-50, VRA-150, VRA-250



LRA-250

### 关键设计及配置：

- 全自动操作，24 小时
- 容器由不锈钢制成
- 设备的外壳由镀铝的金属材料制成
- 安全终点，带 O-型圈密封
- 集成的防爆真空单元
- 集成的防爆导热油加热
- 防爆等级 II 2 G c T3，符合 ATEX-Directive 94/9/EC (ATEX 95)
- 电控柜，带程序逻辑控制(PLC)，显示-操作-终端
- 包括设备和电控柜之间的电缆

### 选项部件：

- 通过网络远程维护
- 更高级别的防爆系统 II 1/2 G c T3 (ATEX 94/9/EC)
- 防腐涂层
- 防爆容器照明安装
- 液态重组分的排除阀
- 带杉栏的收集系统
- 真空可达 10mbar 的真空泵
- 集成的清洁和污染溶剂收集罐

型号	VRA-50	VRA-150	VRA-250
总容积	50L	150L	250L
操作容积, 最小-最大	25-30L	75-100L	140-170L
参考蒸馏速度	8-20 L/h	25-60 L/h	30-80 L/h
操作温度	Max. 200	Max. 200	Max. 200
操作压力	-1.0 到 +0.5bar	-1.0 到 +0.5bar	-1.0 到 +0.5bar
导热油加热	集成	集成	集成
防爆等级 ATEX 94/9/EC	II 1/2 G c T3	II 1/2 G c T3	II 1/2 G c T3
电压/频率	400V/3ph/50Hz	400V/3ph/50Hz	400V/3ph/50Hz
运行功率, 加热	5.0kW	13.0kW	20.0kW
平均总功率	2.9kW	6.0kW	11.0kW
总长	600mm	750mm	850mm
总高	1800mm	1800mm	1800mm
总宽	1420mm	2000mm	2000mm
总重	250kg	400kg	500kg
真空系统	LOE/V6	LOE/V30	LOE/V30
真空压力	80 mbar	50 mbar	50 mbar
15 时的抽气量	10m <sup>3</sup> /h	30m <sup>3</sup> /h	30m <sup>3</sup> /h
约计重量	50kg	65kg	65kg



LRA-50 / 150

设备的技术指标仅供参考，因为每一台设备都要根据您的用途设计制造。如果您有什么需求，请及时与我们联系。

## 真空蒸馏装置

型号 VRA-400, VRA-600



### 关键设计及配置：

- 全自动操作，24 小时
- 容器由不锈钢制成
- 设备的外壳由粉末涂层或镀铝的金属制成
- 安全终点
- 集成的防爆真空单元
- 集成的防爆导热油加热
- 防爆等级 II 2 G c T3，符合 ATEX-Directive 94/9/EC (ATEX 95)
- 电动重组分刮削器，200mm 参考长度
- 防爆搅拌/研磨系统，弹性负载可调
- 电控柜，带程序逻辑控制(PLC)，显示-操作-终端
- 包括设备和电控柜之间的电缆

### 选项部件：

- 防爆操作和显示的触摸界面
- 通过网络远程维护
- 更高级别的防爆系统 II 1/2 G c T3 (ATEX 94/9/EC)
- 蒸汽加热
- 安全收集系统
- 适配的清洁和污染溶剂收集罐

型号	VRA-400	VRA-600
总容积	400L	600L
操作容积，最小-最大	250-300L	350-450L
参考蒸馏速度	60-140 L/h	80-160 L/h
操作温度	Max. 200	Max. 200
操作压力	-1.0 到+0.5bar	-1.0 到+0.5bar
导热油加热	集成	集成
防爆等级ATEX 94/9/EC	II 1/2 G c T3	II 1/2 G c T3
电压/频率	400V/3ph/50Hz	400V/3ph/50Hz
运行功率，加热	30.0kW	40.0kW
平均总功率	16.0kW	21.0kW
总长	2400mm	2800mm
总高	2800mm	3200mm
总宽	1600mm	1700mm
总重	800kg	900kg
真空系统	LOE/V3	LOE/V30
真空压力	50 mbar	50 mbar
15- 时的抽气量	30m <sup>3</sup> /h	30m <sup>3</sup> /h
约计重量	80kg	80kg



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## 真空蒸馏装置

型号 VRA-1200, VRA-1600, VRA-2000, VRA3000



### 关键设计及配置：

- 全自动操作，24 小时
- 容器由不锈钢采制制成
- 设备的外壳由粉末涂层或镀铝的金属材料制成
- 安全终点
- 集成的防爆真空单元
- 集成的防爆导热油加热
- 防爆等级 II 2 G c T3，符合 ATEX-Directive 94/9/EC (ATEX 95)
- 电动重组分刮削器，200mm 参考长度
- 防爆搅拌/研磨系统，弹性负载可调
- 电控柜，带程序逻辑控制(PLC)，显示-操作-终端
- 包括设备和电控柜之间的电缆

### 选项部件：

- 防爆操作和显示的触摸界面
- 通过网络远程维护
- 更高级别的防爆系统 II 1/2 G c T3 (ATEX 94/9/EC)
- 蒸汽加热
- 安全收集系统
- 适配的清洁和污染溶剂收集罐

型号	VRA-1200	VRA-1600	VRA-2000	VRA-3000
总容积	1200L	1600L	2000L	3000L
操作容积，最小-最大	700-900L	1000-1200L	1200-1500L	1800-2200L
参考蒸馏速度	120-280 L/h	150-350 L/h	200-500 L/h	300-800 L/h
操作温度	Max. 200	Max. 200	Max. 200	Max. 200
操作压力	-1.0 到+0.5bar	-1.0 到+0.5bar	-1.0 到+0.5bar	-1.0 到+0.5bar
导热油加热	外置	外置	外置	外置
防爆等级ATEX 94/9/EC	II 1/2 G c T3	II 1/2 G c T3	II 1/2 G c T3	II 1/2 G c T3
电压/频率	400V/3ph/50Hz	400V/3ph/50Hz	400V/3ph/50Hz	400V/3ph/50Hz
运行功率，加热	60.0kW	70.0kW	80.0kW	100.0kW
平均总功率	31.0kW	416.0kW	43.0kW	55.0kW
总长	2800mm	2800mm	2800mm	3200mm
总高	3900mm	4100mm	4300mm	4600mm
总宽	1700mm	1700mm	1700mm	2000mm
总重	1400kg	1500kg	1600kg	2000kg
真空系统	LOE/V55	LOE/V55	LOE/V95	LOE/V125
真空压力	50 mbar	50 mbar	50 mbar	50mbar
15 时的抽气量	55m <sup>3</sup> /h	55m <sup>3</sup> /h	95m <sup>3</sup> /h	130m <sup>3</sup> /h
约计重量	95kg	100kg	115kg	140kg

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