

## ALPHA AV SERIES

### Recycling/ Distillation Equipment



#### KEY FEATURES:

- Automatic Operation (load, set timer & run)
- Recovered solvent from as little as 20c per litre
- Air Cooled Condenser for low run cost
- High boiling point solvents can be recovered
- Removable tank
- Waste residue contained in disposable bag.
- Indirect heating via diathermic oil bath
- Perfect innovation for ISO 14001
- Unrivalled Build Quality & Safety Features
- Compliant with CE & Atex 94/9/CE directives

With rising costs of solvents and solvent disposal, companies are looking at innovative solutions to obtain savings. The good news is that with the new IRAC Alpha AV Series family of solvent distillers, companies now have the ability to distil and recover waste solvents contaminated by inks, oils and pigments, on site, that may traditionally have been sent to disposal.

Implementation allows significant savings by reducing new solvent purchases and eliminating disposal costs which also enhances ISO 14001 compliance.

Alpha AV distillers are reliable, safe and are professionally designed and constructed in Italy, in strict compliance with CE, ATEX, and undergo extensive safety testing. Typical solvents recycled include acetone, methylene chloride, hydrocarbon solvents and ink thinners.

The Alpha AV series feature a tilting tank and boiler in stainless steel and large evaporation surfaces to allow a quick and safe distillation. An optional power vacuum unit is available for extremely fast processing times.

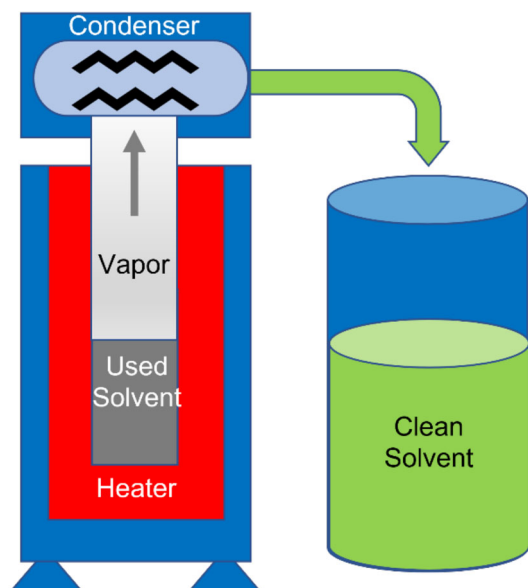
Special solvent and heat resistant waste bags capture residue, so the operator is never in direct contact with waste. VOC emissions are greatly reduced, improving the environment in the workplace and beyond.

Models include AV15 (15 litre capacity) to the AV200 (200 litres capacity) and recovered solvent can be recycled many times over reducing demand for new solvent. Choice of ATEX EX II 3G for installation in Zone 2, or ATEX EX II 2G (explosion proof) suitable for installation in Zone 1.

After installing an IRAC Alpha AV system, customers typically report:

- Reduction in new solvent purchases of up to 80%
- Savings of 90% in disposal costs
- Payback period of a few months
- Very low running costs
- Increased floorspace with lower volumes of solvent to store

Avflex are the exclusive distributor of IRAC solvent recovery systems and we have found them vastly superior other manufacturers. We can supply the full range of IRAC products, and with a simple questionnaire, can advise the model that best suits your needs.



## ALPHA AV SERIES

Solvent Recycling/ Distillation Equipment  
Technical Details

	ALPHA 15	ALPHA 30	ALPHA 70	ALPHA 200
<b>Tank Capacity</b>	15 Litre	30 Litre	70 Litre	200 Litre
<b>Productivity (litres per hour)</b>	3	7.5	17.5	50
<b>Medium Cycle Time for Solvents</b>	4.5	4.5	4.5	4.5
<b>Cycle Time for Water</b>	10-12	10-12	10-12	10-12
<b>Heater Power</b>	1.6 Kw	3 Kw	4 Kw	12 Kw
<b>Max Operation Temp</b>	180° C	180° C	180° C	180° C
<b>Frequency (V/ Hz)</b>	230/ 50-60	230/ 50-60	230/ 50-60	400/ 50-60
<b>Protection</b>	IP 56-65	IP 56-65	IP 56-65	IP 56-65
<b>Cooling System</b>	Air (+ water option)	Air (+ water option)	Air (+ water option)	Air (+ water option)
<b>Condenser</b>	Copper/ Stainless Steel	Copper/ Stainless Steel	Copper/ Stainless Steel	Copper/ Stainless Steel
<b>Dimensions</b>	80 x 50 x 5 x 115	89 x 50 x 5 x 123	102 x 64 x 136	158 x 106 x 168
<b>Weight (Zone 2 Option)</b>	60 Kg	82 Kg	92 Kg	123 Kg

### OPERATION OVERVIEW

Waste solvent is deposited into a removable tank lined with a disposable heat-resistant bag. The tank is placed in a thermostatically controlled bath and heated. This evaporates the solvent, and the vapour is passed through an air-cooled condenser, from where pure, clean solvent drains into a new drum, leaving only the waste residue in the disposable bag in the tank. Once the cycle has completed the bath is switched off and the tank can be removed and allowed to cool. Another full tank can then be inserted, to maintain maximum throughput. When the tank is cool, the bag containing the waste residue is removed and disposed of. The entire process is self contained to minimise VOC emissions.



*Note: All new Alpha series tilting distillers use IRSAC Thermo-proof bags to hold waste.*

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Solvent Recycling/ Distillation Equipment  
Standard Features

	ALPHA AV15	ALPHA AV30	ALPHA AV70	ALPHA AV200
Electrical complies with the ATEX 94/9/EC	S	S	S	S
Heating Elements	1	1	1	2
Fixed boiling tank	S	S	S	S
Tilting Support	S	S	S	S
Electric motor-fan and vent fan	S	S	S	S
Heating element immersed in diathermic oil	S	S	S	S
Electronic temperature and time settings	E	S	S	S
Safety device for overheating oil	S	S	S	S
Safety device for overheating distillate	S	S	S	S
Safety device for overheating motor	S	S	S	S
Copper radiator for cooling vapours	S	S	S	S
Stainless Steel radiator for cooling vapours	-	O	O	O
EPDM® Lid Gasket	S	S	S	S
TEFLON® Lid Gasket	O	O	O	O
Spring Loaded bag retainer	S	S	S	S
Heat & Solvent Resistant Waste Bags	S	S	S	S
Diathermic Oil	S	S	S	S
Vacuum for high boiling point solvent	S	S	S	S
Automatic Vacuum control	S	S	S	S
Post- water radiator cooling	S	S	S	S
Polymer Extractor	S	S	S	S
Conveyor for multiple products	S	S	S	S
Auto suppression of exothermic reactions	-	-	S	S
S= Standard O= Optional				



## ALPHA AV SERIES

Solvent Recycling/ Distillation Equipment  
Optional Accessories

IR 50-100 Thermoresistant disposable bags capture and hold distillation residues. Available in packs of 50 and 100 pieces



Alpha AV Vacuum Extraction Unit. Speeds up solvent processing



Alpha AV Spare Solvent Tanks.  
(Left) Allows continual solvent processing

Alpha AV Thermocouple Lids.  
(right)

