



## Disti Kleen, Incorporated

13420 Reese Blvd. West Huntersville, NC 28078

Phone: (704)948-1257

Fax: (212)202-4526

E-mail: [Disti@Disti.net](mailto:Disti@Disti.net)

Web Page <http://disti.net>

## **DISTI ALPHA** **SOLVENT RECOVERY SYSTEMS**

The solvent distillers DISTI ALPHA series, is characterized by the tilting structure and the fixed tank. It is particularly suitable for users that need to distill and recover solvent from washings (solvent or water), contaminated by substances such as inks, oils, fats, resins, or pigments.

### **FEATURES**

The ALPHA Distillers series are characterized by the tank and boiler made of stainless steel and the large evaporation surfaces which allow a quick and safe distillation. Due to the use of heat-solvent-resistant IRSAC bags, operators are never in direct contact with solvents and/or distillation residues (Fig. 1). This special bag is resistant to all solvents, high temperatures, up to 180°C (356°F) and to chemical attack of the solvents. The bag/liner keeps the bottom of the tank free of any sludge. This feature avoids a sludge build-up which could result in serious loss of heat transfer resulting in difficulty in regulating the temperature accurately. Usually these bags must be disposed of as hazardous waste in accordance with local laws.

*The electrical systems are supplied in ATEX EX (explosion proof for hazardous atmospheres) suitable for installation in Zone 1 and Division 1, Group D.*




### **SAFETY**



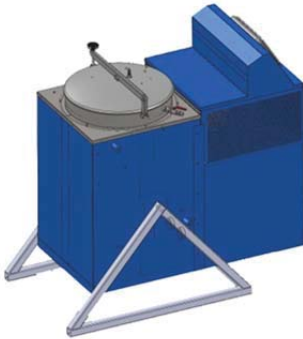
ALPHA Distillers Series are reliable and safe because they have been designed and built with skill, in strict compliance with CE, ATEX, US ELECTRIC.



Fig. 1

### **AVAILABLE VERSIONS**

		
<b>ALPHA 18</b>	<b>ALPHA 30</b>	<b>ALPHA 50</b>

		
<b>ALPHA 70</b>	<b>ALPHA 120</b>	<b>ALPHA 200</b>



# Disti Kleen, Incorporated

13420 Reese Blvd. West Huntersville, NC 28078  
Phone: (704)948-1257 Fax: (212)202-4526  
E-mail: [Disti@Disti.net](mailto:Disti@Disti.net) Web Page <http://disti.net>

## SC DISTI ALPHA ENT RECOVERY SYSTEMS

COMPOSITION	ALPHA 18	ALPHA 30	ALPHA 50	ALPHA 70	ALPHA 120	ALPHA 200
1. <b>Electrical installation</b> certificate and complies with all electrical parts UL listed	•	•	•	•	•	•
2. <b>Number of Heating Elements</b>	1	1	1	1	1	1
3. <b>Fix boiling tank</b> with integrated boiler tank	•	•	•	•	•	•
4. <b>Tilting Support</b>	•	•	•	•	•	•
5. <b>Electrical Motor</b> -fan with balanced vent fan	•	•	•	•	•	•
6. Heating element <b>immersed in diathermic oil</b>	•	•	•	•	•	•
7. <b>Electro-Mechanical</b> wiring with temperature and time settings	•	•	•	•	•	•
8. <b>Safety devices</b> for the control of overheating of the diathermic oil	•	•	•	•	•	•
9. <b>Safety devices</b> for the control of overheating of the <b>distillate</b>	•	•	•	•	•	•
10. <b>Safety devices</b> for the control of overheating of the fan <b>motor</b>	•	•	•	•	•	•
11. <b>Copper Radiator</b> incorporated for cooling down vapors	•	•	•	•	•	•
12. <b>Stainless Steel radiator</b> for cooling the solvent vapors required to distill products with the presence of chlorides. This item excludes COPPER radiator	O	O	O	O	O	O
13. <b>Spring to hold the bag (clip-sac):</b> specifically shaped to prevent the bag, once relieved, from the solvent evaporated, can move with the risk of occluding the output of the vapors	•	•	•	•	•	•
14. No. 03 <b>Heat-Solvent Resistant Bags</b>	•	•	•	•	•	•
15. <b>Diathermic Oil</b>	•	•	•	•	•	•

• = INCLUDED; O = OPTIONAL; - = UNAVAILABLE



Alpha series tilting distillers to be used also with IRSAC Thermo proof bags.



**Disti Kleen, Incorporated**

13420 Reese Blvd. West Huntersville, NC 28078

Phone: (704)948-1257

Fax: (212)202-4526

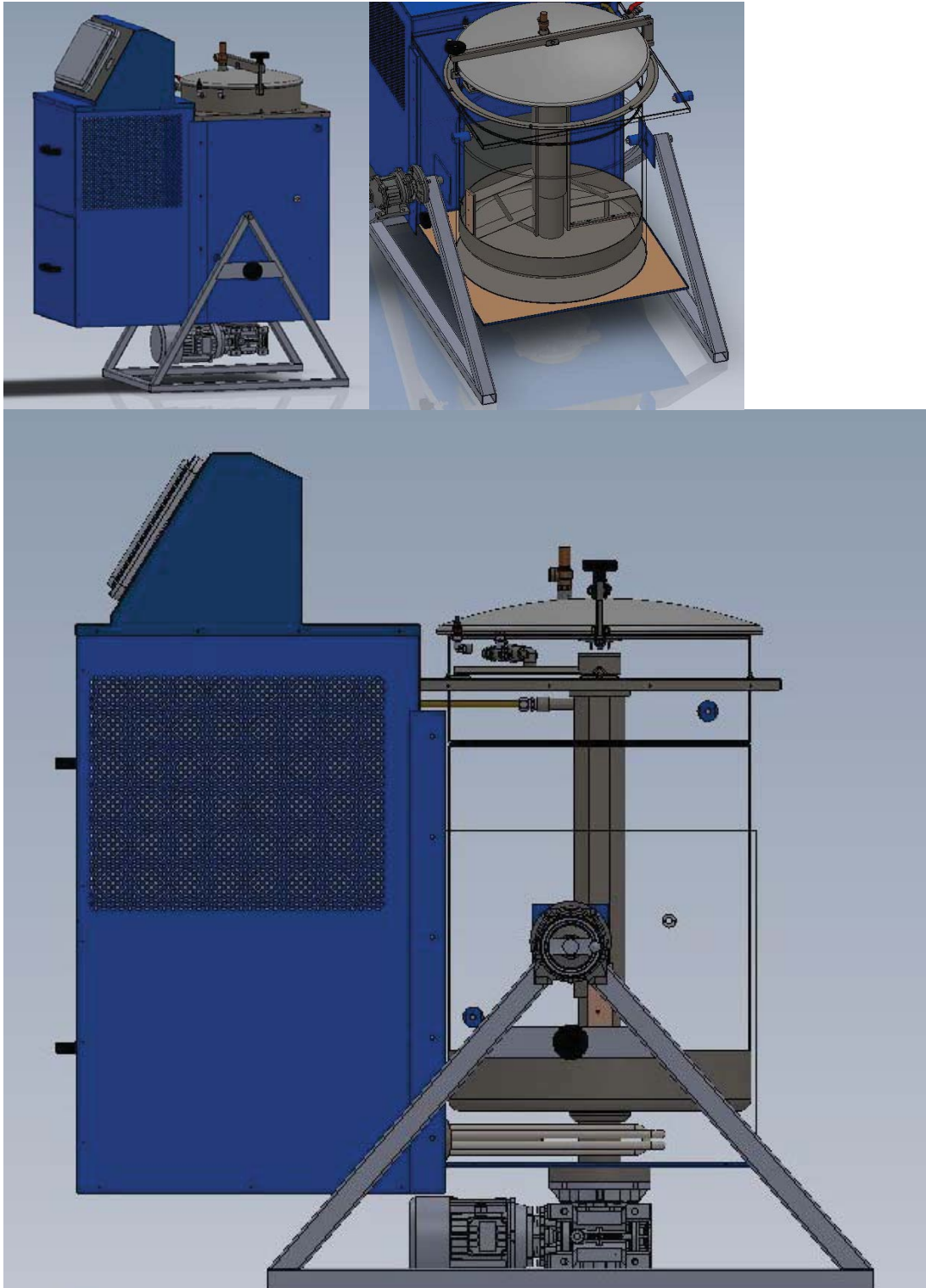
E-mail: [Disti@Disti.net](mailto:Disti@Disti.net)

Web Page <http://disti.net>

**DISTI ALPHA**  
**SOLVENT RECOVERY SYSTEMS**

## **AVAILABLE ACCESSORIES**

Scraper Blades:





# Disti Kleen, Incorporated

13420 Reese Blvd. West Huntersville, NC 28078

Phone: (704)948-1257

Fax: (212)202-4526

E-mail: [Disti@Disti.net](mailto:Disti@Disti.net)

Web Page <http://disti.net>





## DISTI ALPHA

**SOLVENT** | **AVAILABLE OPTIONAL** **IS**

COMPOSITION	ALPHA 18	ALPHA 30	ALPHA 50	ALPHA 70	ALPHA 120	ALPHA 200
<b>OPTIONAL</b>						
<b>16. Heat and solvent resistant bags</b> to facilitate the extraction of the distillation residues avoiding the 'grip inside the tank. Available in packs of 50 and 100 pieces	o	o	o	o	o	o
<b>17. Vacuum generator</b> to be applied to the distiller for the regeneration of high boiling solvents (with a boiling point from 160 to 210°C / 320-410°F)	o	o	o	o	o	o
<b>18. Operated Vacuum:</b> Automatic vacuum automatically operated during the various phases of the distiller	o	o	o	o	o	o
<b>19. Post- WATER Radiator</b> cooling system water	o	o	o	o	o	o
<b>20. Polymer Extractor</b>	o	o	o	o	o	o
<b>21. Boiling conveyor:</b> accessory for the simultaneous distillation of two or more non-mixable products	o	o	o	o	o	o
<b>22. ESO:</b> Automatic suppression of any exothermic reactions with water entering the network	o	o	o	o	o	o

● = **INCLUDED**; ○ = **OPTIONAL**; - = **UNAVAILABLE**

THANKS TO THE PECULIAR PLANT ALPHA SERIES MACHINES CAN BE COMBINED WITH A RANGE OF ACCESSORIES TO ENHANCE THE CONVENIENCE AND SAFETY AS WELL AS PRODUCTIVITY AND PERFORMANCE.

	<b>IR 50-100</b> <b>Thermo resistant IRSAC bags</b> (180°C - 356°F) to facilitate the extraction of the distillation residues while avoiding the adhesion inside the tank. Available in packs of 50 and 100 pieces
	<b>GVS</b> All DISTI distillers can be equipped with vacuum accessory: This will reduce the boiling temperature of the solvent by bringing it to the vaporous state, at a lower temperature. 1. If solvent boiling temperature is close to or exceeds a critical decomposition temperature. Typical representatives are some chlorinate solvents. 2. High boiling solvents from 160 to 210°C (from 320 to 410°F)
<b>VG</b>	<b>VG Operated Vacuum</b> Automatic vacuum automatically operated during the various phases of the distiller
	<b>PC POST WATER RADIATOR</b> water cooling system necessary for the condensation of low-grade products boiling in a range of temperature of 35-40°C (95-104°F)
	<b>EP POLYMER EXTRACTOR</b> Necessary to extract solidified residues avoiding them to stick inside the tank. In the case of adherence of the distillation residues, it is necessary to combine the extractor to the IRSAC.



## Disti Kleen, Incorporated

13420 Reese Blvd. West Huntersville, NC 28078

Phone: (704)948-1257

Fax: (212)202-4526

E-mail: [Disti@Disti.net](mailto:Disti@Disti.net)

Web Page <http://disti.net>

## **DISTI ALPHA** **SOLVENT RECOVERY SYSTEMS**



### **CON BOLING CONVEYOR**

Accessory for the simultaneous distillation of two or more products immiscible



### **ESO**

Automatic suppression of any exothermic reactions with water entering the network

### **TECHNICAL INFO**

	<b>ALPHA 18</b>	<b>ALPHA 30</b>	<b>ALPHA 50</b>	<b>ALPHA 70</b>	<b>ALPHA 120</b>	<b>ALPHA 200</b>
Effective capacity of the reservoir tank – Recommended	4.75 gal	8 gal	13 gal	18.5 gal	32 gal	55 gal
Approximate hourly production	1 – 1.1 gal/h	1.5 - 2 gal/h	3 – 3.5 gal/h	4 – 5 gal/h	7 - 8 gal/h	11- 13 gal/h
Maximum operating temperature	180°C 356 °F	180°C 356 °F	180°C 356 °F	180°C 356 °F	180°C 356 °F	180°C 356 °F
Heating power	2 Kw	3 Kw	3 Kw	6 Kw	12 Kw	16 Kw
Cooling System	Air	Air	Air	Air	Air	Air

### **ELECTRICAL BOX**



ELECTRIC VERSION **ATEX EX II 2G** AND DIVISION  
**1/GROUP D**  
SUITABLE FOR INSTALLATION IN ZONE 1

PROTECTION IP 65





## Specifications and Options for Distillation Units DISTI ALPHA Systems

The Disti ALPHA Series with filling capacities of **ALPHA 18 (4.5 gal)**, **ALPHA 30 (8 gal)**, **ALPHA 50 (13 gal)**, **ALPHA 70 (18 gal)**, **ALPHA 110 (30 gal)** and **ALPHA 200 (55 gal)**, are distillers which allow the recycling and the reuse of solvents through a simple distillation process that separates the contaminants (resins, polymers, pigments, paints, oils, etc.) from the original solvent. Easy and dependable operation makes the Disti series an economical solution for the small waste generator. It usually offers a payback of far less than one year.

Boiling of the solvent is accomplished by a peripheral heating jacket filled with thermal oil and heated by an immersed electrical element. The contaminated solvent inside the boiler is brought to boil while the resulting vapors are channeled to an air cooled condenser (water cooled condenser available upon request) where they are condensed back to clear liquid solvent. No cooling water is required. The condensed solvent is collected in a tank for reuse. The solids remain as a residue inside the boiling chamber. The residue can be removed by simply tilting the unit (see picture), or by use of an optional solvent resistant liner bag. The distilled solvent characteristics are not altered by the distillation process and can be carried on repeatedly. The unit can be connected to an optional air operated vacuum system, which allows the safe recovery of high boiling solvents or for those flammable ones which have a close boiling point and flash point. The vacuum is also necessary for solvents containing Nitrocellulose or other

## Standard Features:

- Stainless steel boiling chamber (Teflon available)
- Solvent resistant lid gasket and seals
- Distillation control system for setting and monitoring; oil temperature, vapor temperature, distillate temperature with automatic end of cycle shut down
- Efficient air cooled condenser - no cooling water required
- Safety pressure relief valve
- Self-contained system with small footprint that doesn't take up valuable floor space
- Can be equipped with optional vacuum system at any time
- Ergonomic removal of still bottom by designed tilting of complete unit or with optional disposable liner bags
- Plug and go design – just attach a suitable plug to the supplied power cable
- Furnished with complete user manual and spare part documentation – includes free unlimited remote technical support
- Explosion Proof; designed in accordance to Nema 7 standards for Class 1, Div.1 installations

**Please visit our web page @ [www.distinet](http://www.distinet)**



## Disti Kleen, Incorporated

13420 Reese Blvd. West Huntersville, NC 28078  
Phone: (704)948-1257 Fax: (212)202-4526  
E-mail: [Disti@Disti.net](mailto:Disti@Disti.net) Web Page <http://disti.net>

## **DISTI ALPHA** **SOLVENT RECOVERY SYSTEMS**

<b>Shipping:</b>	fob Huntersville, NC
<b>Delivery:</b>	6 – 10 weeks upon order and receipt of deposit
<b>Terms:</b>	35% upon order, 50% upon shipping, balance 10 days after start-up but no later than 30 days after delivery
<b>Start-Up and operator training:</b>	<b>FREE technician support.</b> <b>Factory trained technician will spend one day at your facility for start-up and operator training (including all travel related expenses)</b>
<b>Warranty:</b>	The warranty is twelve months after delivery. The warranty covers the free-of-charge delivery of any parts that become faulty during the warranty period. Free on-site technical assistance can only be provided if specialized technical knowledge is required for replacement of parts. Wear-and-tear parts are excluded from the warranty, i.e., gaskets, scraper blades, pumps, etc.

### ALPHA solvent recovery system



ALPHA tilted for  
sludge removal or  
optional Nylon bag.

