

TUMBLE DRYERS



TUMBLE DRYERS

INDEX

- 1.- Product Range - Overview
- 2.- Classification
- 3.- Main Features
- 4.- Accessories and Options
- 5.- Technical data
- 6.- Sales Arguments and marketing tools

1. PRODUCT RANGE - OVERVIEW

Different ranges are proposed to satisfy all types of customers' needs:

- **DD-GOLD** : the most efficient.
- **DD-SILVER** : standard and versatile
- **DD-BRONZE** : analogic control
- **DD-BASIC** : for price-concerned markets with high technology

✓ **New** – **Stack dryers:**
Double drum for reduced spaces

✓ **New** – **Heat pump:**
Models from 11 to 23 kg



1. PRODUCT RANGE – OVERVIEW

Control type	Heating	DD-GOLD - Capacities kg							
		DD-11	DD-16	<i>New</i> DD-23	<i>New</i> DD-28	DD-35	DD-45	DD-60	DD-80
Microprocessor	Electric, gas or steam	11-12	17-18	23-26	27-31	33-37	45-50	60-67	75-83

Control type	Heating	DD-SILVER - Capacities kg							
		DD-11	DD-16	<i>New</i> DD-23	<i>New</i> DD-28	DD-35	DD-45	DD-60	DD-80
Microprocessor	Electric, gas or steam	11-12	17-18	26-26	27-31	33-37	45-50	60-67	75-83
Self service	Electric or gas	11-12	17-18	23-26	27-31	33-37	---	---	---

Control type	Heating	DD-BRONZE - Capacities kg							
		DD-11	DD-16	DD-23	DD-28	DD-35	DD-45	DD-60	<i>New</i> DD-80
Analogic	Electric, gas or steam	11-12	17-18	26-26	27-31	33-37	45-50	60-67	75-83

1. PRODUCT RANGE - OVERVIEW

Control type	Heating	DD-BASIC - Capacities kg <i>New</i>				
		DD-11	DD-16	DD-23	DD-28	DD-35
Analogic	Electric or gas	11-12	17-18	23-26	27-31	33-37

Control type	Heating	STD Stack dryers - Capacities kg <i>New</i>	
		STD-11	STD-16
Microprocessor	Electric or gas	11-12	17-18
Self service	Electric or gas	11-12	17-18

Control type	Heating	DD-HP Heat pump - Capacities kg <i>New</i>		
		DD11 HP	DD16 HP	DD23 HP
Microprocessor	Heat pump	11-12	17-18	22-24
Self service	Heat pump	11-12	17-18	22-24

2. CLASSIFICATION

2.1 HEATING :

- **Electric (E)** – Heating elements.
- **Gas (G)** – Tubular burner in stainless steel, with atmospheric combustion.
- **Steam (S)** – Battery made in copper (up to DD-35) and stainless steel (DD-45 to 80)
- **Thermal oil (T.O.)** – Battery made in copper models DD-45 and DD-80

Except the BASIC models and STD stack dryers available only in electric and gas heating.

Capacity: 11, 18, **New 23**, **New 28**, 36, 45, 60 and 80 kg (BASIC from 11 to 35)

Self-service: Available in DD 11 to 35. (Tokens, coins and central pay). Not available for BASIC line and BRONZE range with timer control type.

Control: all ranges are digital except BASIC and BRONZE range (timer version)

2. CLASSIFICATION

New

STACK DRYERS:

Heating:

- Electric (E) – Heating elements.
- Gas (G) – Tubular burner in stainless steel, with atmospheric combustion.

Capacity: 2 x 11 kg, 2 x 16 kg.

Self-service: Available (Tokens, coins and central pay)

Control: Digital

TWO IN ONE



2. CLASSIFICATION

HEAT PUMP:

Heating:

- Heat pump. No exhaust to the exterior.

Capacity: 11, 16, 23 kg.

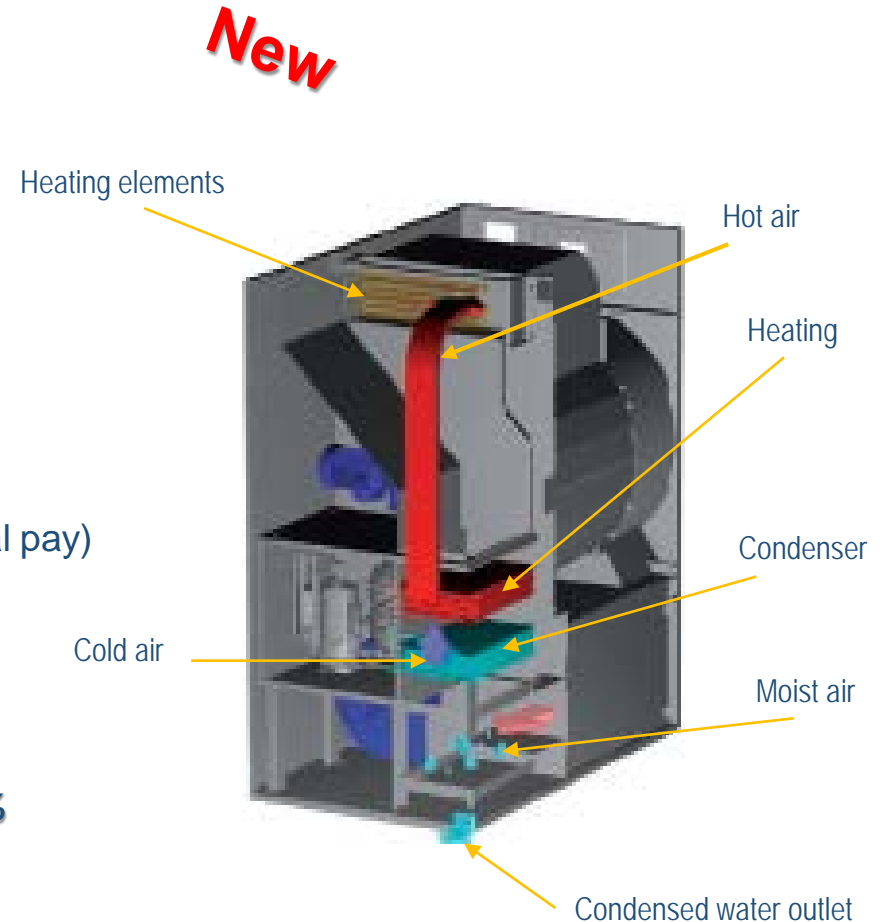
Self-service: Available (Tokens, coins and central pay)

Control: Digital

100 % recovered air

No need of exhaust installation

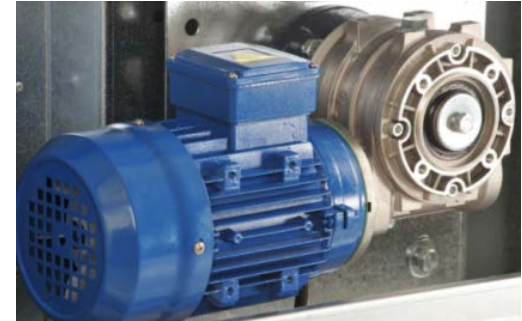
Electric consumption reduced from 50 to 75 %



3. MAIN FEATURES

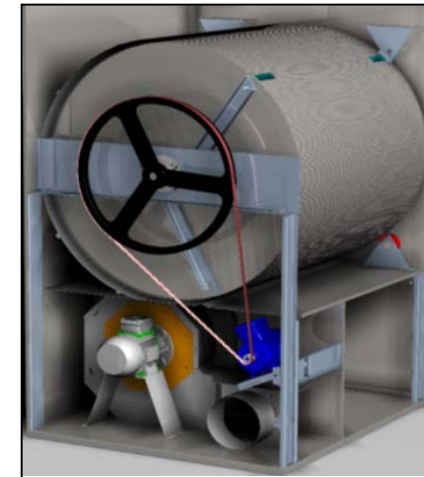
3.1. - DIRECT DRIVE – GEARBOX in small models DD-11 to DD-23

- Transmission by gearbox, for an easy maintenance
- Suspended drum
- Rear subjection by 2 bearings
- No need of maintenance



3.2. -TRANSMISSION by pulley and Poly –V belt in models DD-28 to DD-80

- Rear subjection by 1 bearing
- Front subjection by 2 wheels
(Supporting wheels strong and high-resistant)



3. MAIN FEATURES

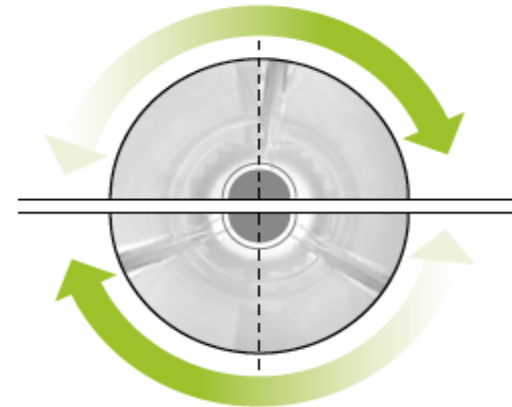
3.3. - AUTOREVERSE DRUM

All models offer the reverse turning of the drum

The reverse system of the drum is done through the inverter in all models

ADVANTAGES

- Drying process is more efficient
- Better uniformity on the garments drying process
- Avoid the tangling of the big pieces / Increase control



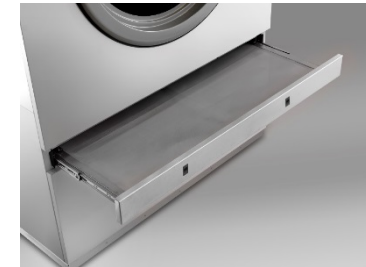
3.4. - FREQUENCY CONTROL

- All range with ABB Inverter, that controls rotating speed and reverse drum action in all models and ranges.

3. MAIN FEATURES

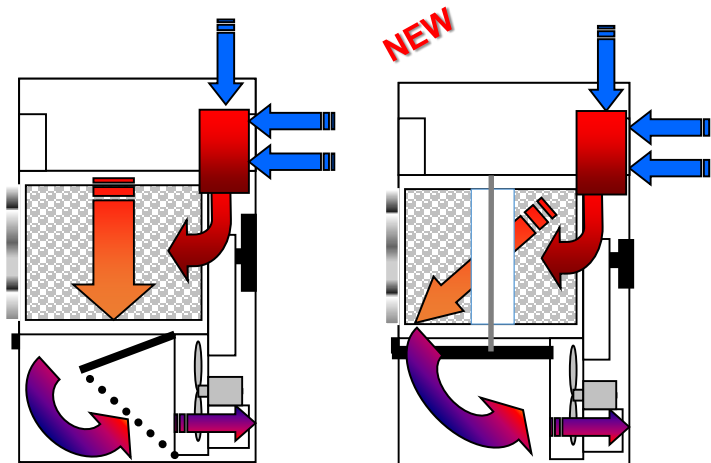
3.5. – **NEW** AIR FLOW AND **NEW** DRAWER AS FLUFF FILTER, MADE OF STAINLESS STEEL

All models offer new bigger fluff filter and new improved air flow

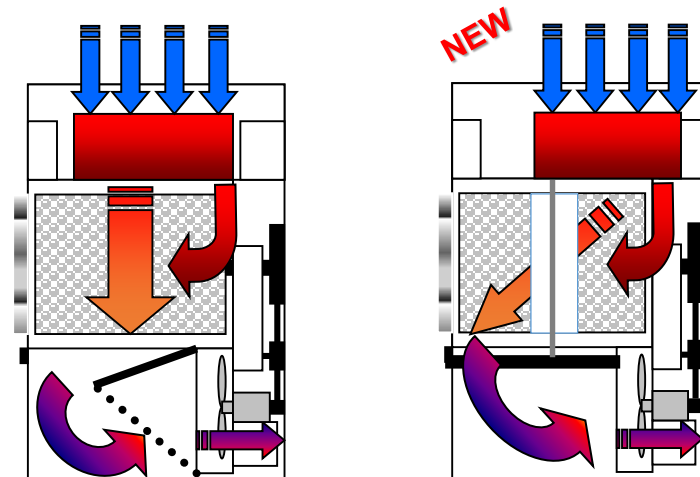


ADVANTAGES

- Increased drying efficiency
- Easy to clean – ergonomics



From DD-11 to DD-23 dryers



From DD-28 to DD-80 dryers

3. MAIN FEATURES

3.6. – OUTER CASING

All **GOLD** and **SILVER / BRONZE** models offer panels in grey skinplate, stainless steel look.

ADVANTAGES

- Elegant look
- Stamped front and sides panels

All **BASIC** models offer panels in galvanized steel.



3. MAIN FEATURES

3.7. – STAINLESS STEEL DRUM

The drums of the **GOLD** and **SILVER / BRONZE** dryers are built in **stainless steel BA finishing**

ADVANTAGES

- Better quality and durability



The drums of the **BASIC** dryers are built in **galvanized steel**.

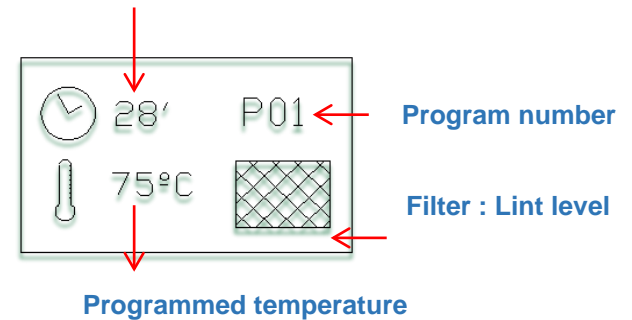
3. MAIN FEATURES

3.8. – CONTROLS

MP CONTROL

- Electronic/Digital Control – up to 9 drying programs
- Blue contrast screen with improved visibility from all angles
- Complete control of the process
- Possibility to select the required drum speed, statistics control, technical menu, alarms, etc.
- User Friendly / Easy and intuitive to use

Remaining time or Set humidity target (CARE DRY option)



Analogic control (BASIC and BRONZE range)

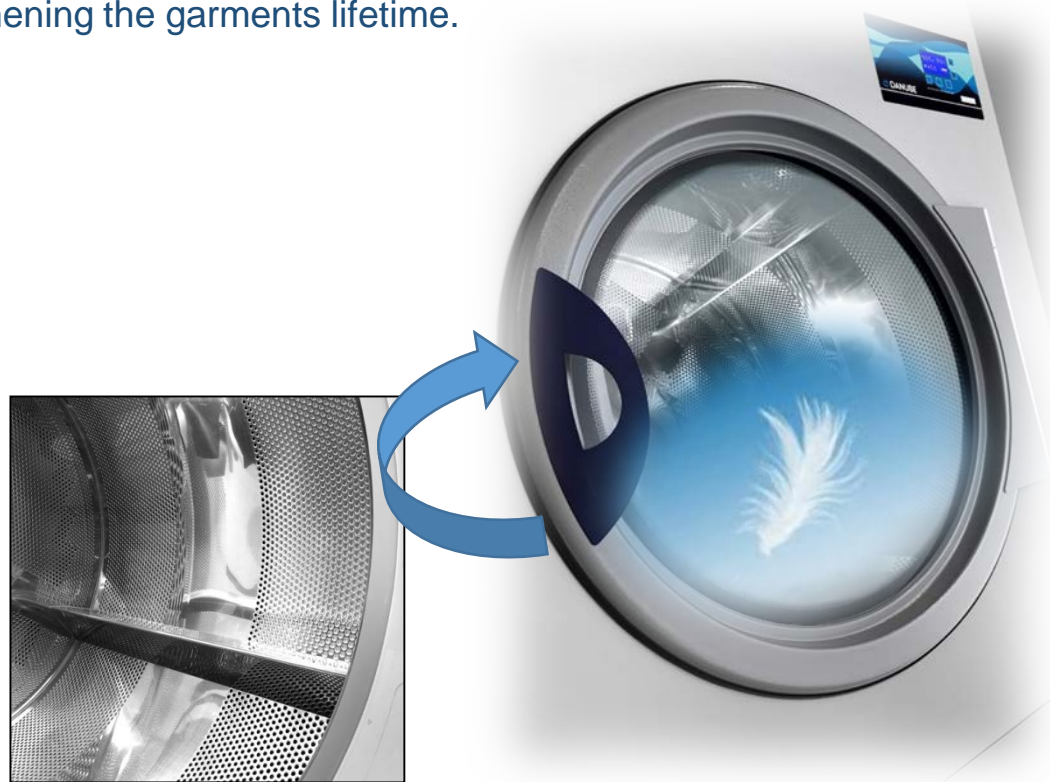


Digital control (GOLD, SILVER, STD and DD-HP range)

3. MAIN FEATURES

3.9. – GENTLE DRY

The new drum perforations of the **GOLD** and **SILVER / BRONZE** dryers make sure the liner is gently handled, lengthening the garments lifetime.



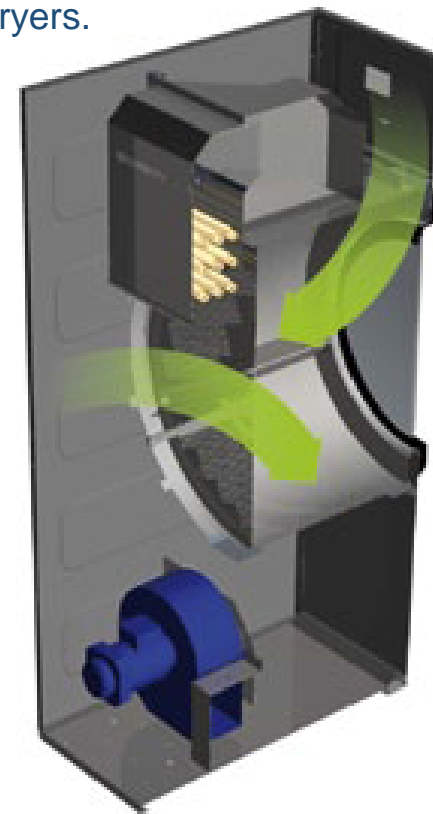
3. MAIN FEATURES

3.10. – DOUBLE FLOW– AXIAL AND RADIAL AIRFLOW

Mixed axial-radial airflow increases the efficiency of the whole drying process due to the improvement of the airflow inside the drum, in **GOLD** and **SILVER / BRONZE** dryers.

ADVANTAGES

- Increases the efficiency of the whole drying process



3. MAIN FEATURES

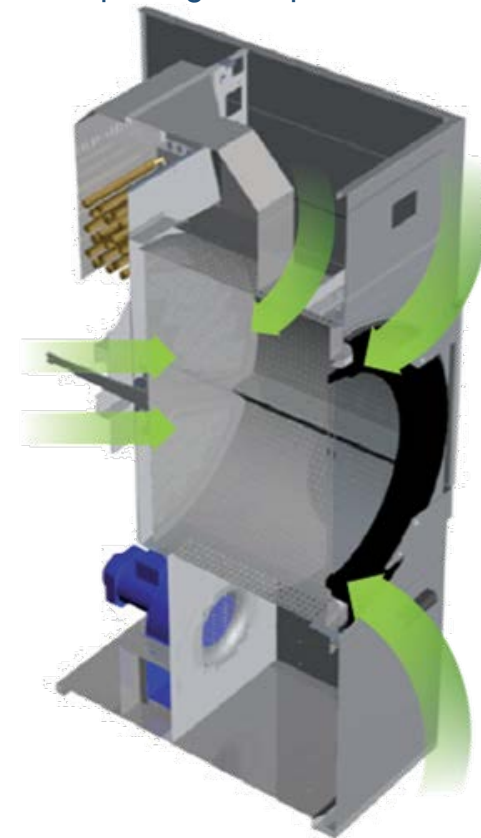
3.11. – OPTIMAL FLOW– “OPTIMIZED” AXIAL AND RADIAL AIRFLOW

New “optimized“ system of mixed airflow for **GOLD** dryers.

The standard axial-radial airflow (mixed flow) is complemented with further openings to optimize the air circuit and achieving the most efficient drying..

ADVANTAGES

- Increases the efficiency of the whole drying process



3. MAIN FEATURES

3.12. – CARE DRY - MOISTURE CONTROL – Standard GOLD dryers

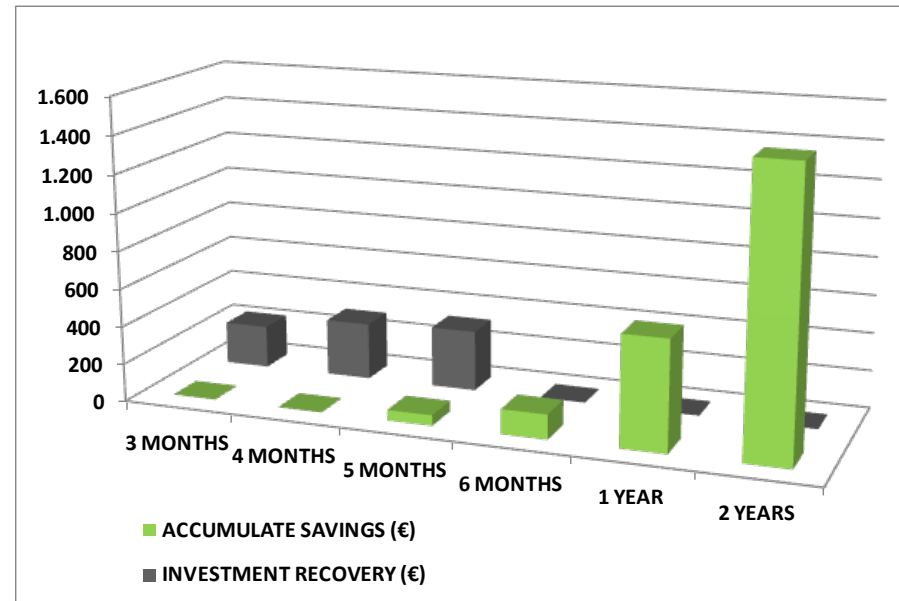
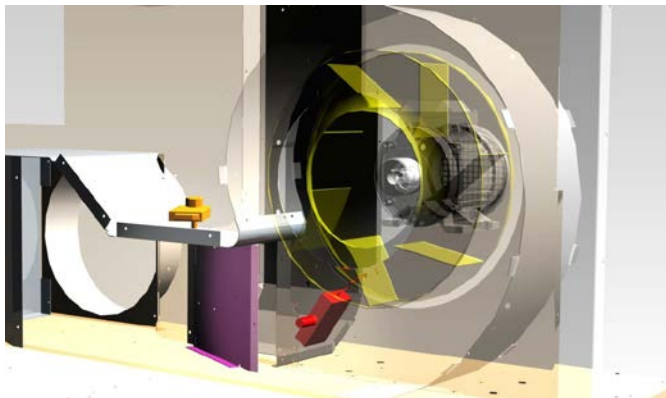
Very accurate and economical humidity sensor

Drying cycle stop when it reaches the set level of residual moisture

Automatically adapts drum spinning speed to the humidity level of the load, ensuring maximum humidity extraction

ADVANTAGES

- Kinder treatment of garments
- Energy saving
- Reduced Drying Time



3. MAIN FEATURES

3.13. – FIRE SUPPRESSION SYSTEM – Standard **GOLD** dryer

Integrated Fire extinguishing system

Maximum safety and immediate activation of the system in case of fire inside the dryer basket

ADVANTAGES

- Safety



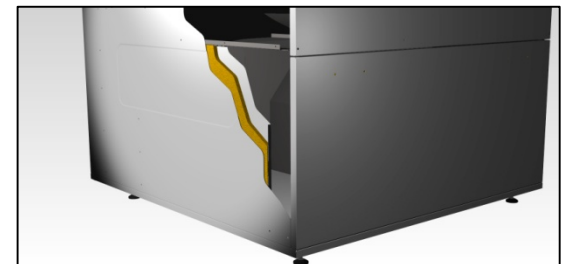
Système
anti-feu

3.14. – INSULATED PANELS – Standard **GOLD** dryer

Double insulation, panels by panel and system of ventilated facades, insulated ducts and double glazed door

ADVANTAGES

- The heat is maintained within the dryer and not lost.
- Optimization of the drying cycle.
- Preheated air



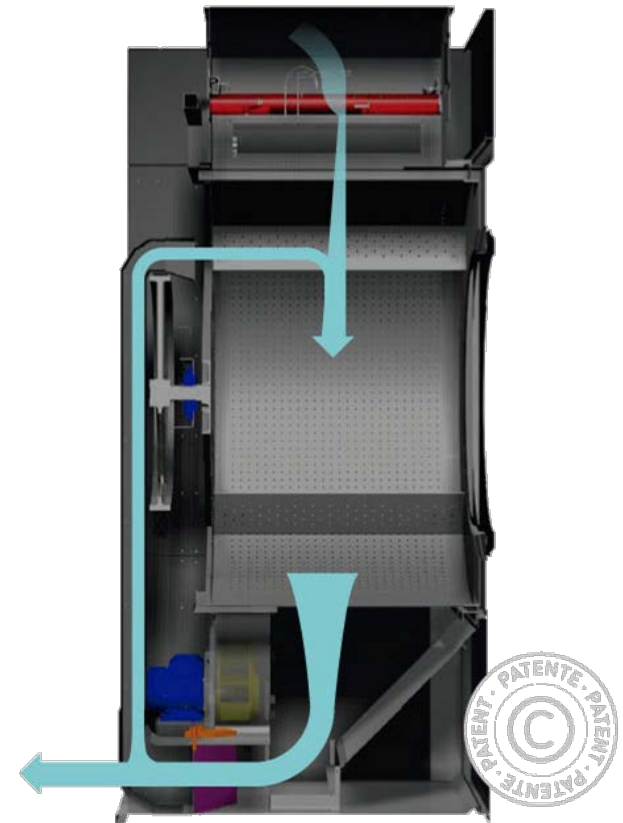
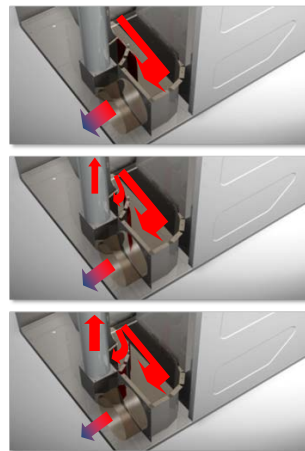
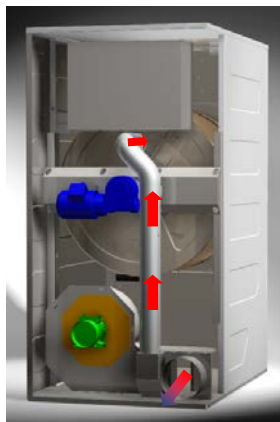
3. MAIN FEATURES

3.15. – AIR RECIRCULATION SYSTEM© patented – Standard **GOLD** dryer

Reintroduces the expelled hot air inside the drum depending on the humidity level. Re-use the hot air-flow

ADVANTAGES

- Increase the air flow inside the drum
- Lower energy heating consumption
- Decreased drying cycle time
- Maximum energy saving
- Quick investment payback



3. MAIN FEATURES

DD-GOLD	SILVER & BRONZE-DD		BASIC-DD
	MP control	Timer	
REVERSING DRUM			
FREQUENCY INVERTER			
NEW AIR FLOW AND NEW DRAWER AS FLUFF FILTER, MADE OF STAINLESS STEEL			
OUTER CASING IN GREY SKINPLATE		GALVANIZED STEEL OUTCASING	
STAINLESS STEEL DRUM		GALVANIZED STEEL DRUM	
MP - ELECTRONIC CONTROL		TIMER	
GENTLE DRY			
OPTIMAL FLOW OPTIMIZED AXIAL AND RADIAL AIR FLOW	DOUBLE FLOW AXIAL AND RADIAL AIR FLOW		
CARE DRY – INTELLIGENT MOISTURE CONTROL	OPTIONAL		
FIRE SUPPRESSION SYSTEM	OPTIONAL		
AIR RECIRCULATION©			
INSULATED PANELS			

3. MAIN FEATURES

3.16. – CERTIFICATES

- Gas homologation
- CE approved



3.17. – VOLTAGES

- Gas and steam models are supplied 230V single phase to allow the most versatile connections till SR-35 model
- DD-45, DD-60 and DD-80, Three-phase models

4. ACCESSORIES AND OPTIONS

- Double door glass in **SILVER** models. Standard in **GOLD** models.
- Stainless steel front panel.
- Stainless steel front and side panels.
- CARE DRY system. (MOISTURE CONTROL) for **SILVER** models with MP control. Standard in **GOLD** models
- FIRE SUPPRESSION SYSTEM for **SILVER** models with MP control. Standard in **GOLD** models
- Low pressure steam battery. For markets in which the steam pressure is below 5 bar.

MODEL	UNIT.	DD-11	DD-16	DD-23	DD-28	DD-35	DD-45	DD-60	DD-80
Capacity 1/18	Kg	12	18	26	31	37	50	67	83
Capacity 1/20	Kg	11	17	23	27	33	45	60	75
Hourly Output GOLD	Kg/h	27	43	60	72	86	117	156	195
Hourly Output SILVER / BRONZE / BASIC	Kg/h	21	33	46	55	66	90	120	150
Evaporation capacity GOLD	l/h	14,17	22,4	35,1	44,6	44,6	60,6	81,2	99,7
Evaporation capacity SILVER / BRONZE / BASIC	l/h	10,9	17,2	23,9	28,6	34,3	46,6	62,5	76,7
DRUM									
Drum Ø	mm	750	750	855	947	947	1225	1225	1225
Ø Door	mm	574	574	574	802	802	802	802	802
Door center height	mm	976	976	1030	1040	1040	1275	1275	1275
Door bottom height	mm	689	689	743	640	640	874	874	874
Drum length	mm	475	746	800	780	936	760	1020	1252
Drum volume	l	210	330	460	550	660	896	1202	1500
POWER									
Drum motor power	KW	0,25	0,25	0,37	0,55	0,55	0,75	1,1	1,5
Fan Motor Power GOLD	KW	0,55	0,55	0,75	0,75	0,75	2,2	2,2	2,2
Fan Motor Power SILVER / BRONZE / BASIC	KW	0,25	0,25	0,55	0,55	0,55	1,1	1,1	1,1
Electric Heating (Installed power) GOLD	KW	12,85	18,85	25,17	31,35	37,35	57	75,35	75,75
Electric Heating (Installed power) SILVER / BRONZE / BASIC	KW	12,55	18,55	24,97	31,15	37,15	55,9	74,25	74,65
Electric Heating (Power installed)	KW	12	18	24	30	36	54	72	72
Gas heating (installed Power) in KW	KW	20,51	20,51	31	41	41	60	90	120
Steam heating (Steam Power KW)	KW	30	30	49,2	50,1	50,1	91,3	128	128
Gas/Steam heating (installed el. power) GOLD	KW	0,85	0,85	1,17	1,35	1,35	3	3,35	3,75
Gas/Steam heating (installed el. power) SILVER /BRONZE /BASIC	KW	0,55	0,55	0,97	1,15	1,15	1,9	2,25	2,65
DIMENSIONS									
Net dimensions (W x D x H)	mm	785x840x1694	785x1100x1694	890x1245x1812	985x1054x1946	985x1210x1946	1270x1085x2380	1270x1345x2380	1270x1577x2380
Gross dimensions (W x D x H)	mm	865x940x1840	865x1210x1840	970x1345x1940	1065x1154x2080	1065x1310x2080	1330x1185x2085	1330x1445x2085	1330x1677x2085
Net Weight	Kg	172	187	210	230	260	395	529	657
Gross Weight	Kg	180	200	230	260	285	430	575	715
OTHERS									
Max airflow GOLD	m3/h	1200	1200	1500	1500	1500	4500	4500	4500
Max air flow SILVER / BRONZE / BASIC	m3/h	850	850	1200	1200	1200	3000	3000	3000
Ø fume exhaust	mm	200	200	200	200	200	300	300	300
Noise level GOLD / SILVER / BRONZE / BASIC	dB	64	64	65	65	65	67	67	67

6. SALES ARGUMENTS



Air recyclé



Contrôle de l'humidité
et réglage automatique
du tambour



Système
anti-feu



Carrosserie isolée



Double flux
Axial & Radial



Inversion de sens



Inox



Programmeur
électronique



Hublot
double vitrage

FEATURES - PICTOGRAMS:

AIR RE-CYCLE – air recirculation

CARE DRY– Intelligent moisture control

ANTI-FIRE – Fire suppression system

THERMAL INSULATION – insulated panels

DOUBLE FLOW – double axial and radial airflow

REVERSE ACTION – Reverse drum action

STAINLESS STEEL DRUM

ELECTRONIC CONTROL – Digital microprocessor

DOUBLE GLASSDOOR

