

# Chapter 19

## Compressors & Suction/Separation Systems

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## Compressors - Oil Free

### Cattani Compressors

Cattani compressors are renowned for their high performance, reliability and longevity. Nothing but clean and dry air, all the time.

- High performance
- Low maintenance
- Extensive range
- Oil free



#### AC100 with Dryer

- 1 surgery
- Single cylinder
- 1 dryer
- 1~ 50Hz-0.55kW-3.8A
- 67.5N l/min
- 30 litres
- 70dB(A)
- W620 D460 H720 (mm)
- Weight: 56kg

Code	Description
CATT-013130	AC100 with Dryer



#### AC200 with Dryer

- 2 - 4 surgeries
- 2 cylinder
- 1 dryer
- 1~ 50Hz-1.2kW-7.7A
- 160N l/min
- 30 Litres
- 70dB(A)
- W620 D460 H720 (mm)
- Weight: 68kg

Code	Description
CATT-013230	AC200 with Dryer



#### AC300 with Dryer

- 4 - 6 surgeries
- 3 cylinder
- 1 dryer
- 1~ 50Hz-1.5kW-10.2A
- 238N l/min
- 45 Litres
- 73.6dB(A)
- W620 D520 H750 (mm)
- Weight: 79kg

Code	Description
CATT-013330	AC300 with Dryer

# OIL-FREE COMPRESSORS

## HIGH QUALITY, CLEAN, DRY AIR

### OVER 40 YEARS OF INNOVATION



Cattani's range of compact compressors produce clean, dry, oil-free air, protecting the dental unit, rotary instruments, staff and patients alike in modern and demanding practices.

Cattani compressors deliver both high quality and reliability to the end user, and our competitive prices mean you can get the system you need at the best price. All compressors are hand built and quality checked at every stage of production.

Cattani use the simplest drying system which has a self-purging drying column, requiring minimum maintenance.

We have a full range of oil-less compressors, from single surgery to bespoke systems for hospitals.

All our compressors are available to purchase with sound reducing hoods, our AC100, AC200 and AC300 compressors can be fitted with a sound reducing cabinet which reduces noise levels to an impressive 52dB(A).

**All Cattani Compressors are supplied with a 3 year warranty\* (subject to Terms and Conditions of servicing schedule).**



#### HOW IS IT WE LEAD IN OUR FIELD, WHEN WE COST LESS THAN THE ALTERNATIVES? THIS IS HOW:

**Constant research:** this lets us apply the latest technology in all of our products and solutions.  
**We enhance performance:** electronic and information technology allow us to increase the performance and reliability of our products.

**We reduce costs:** less maintenance and energy costs mean on a cost-benefit analysis we are always the most economical.

**We reduce environmental impact:** we save 50% of primary materials, and allow you to save between 30% and 50% of electrical consumption.





### AC400 with Dryer

- 6 - 8 surgeries
- 2 cylinder tandem motor
- 2 dryers
- 2 x 50Hz-1.5kW-10.2A
- 320N l/min
- 100 Litres
- 73dB(A)
- W1155 D550 H745 (mm)
- Weight: 134kg

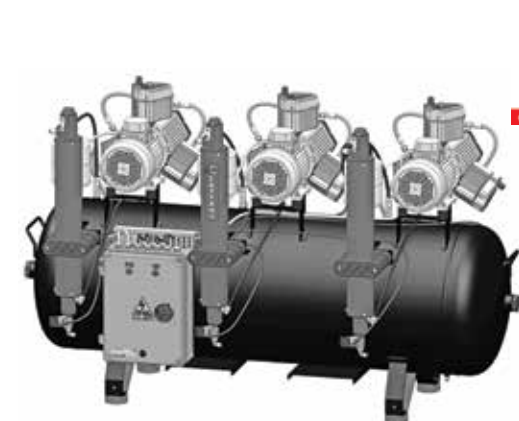
Code	Description
CATT-013430	AC400 with Dryer



### AC600 with Dryer

- 8 - 14 surgeries
- 3 cylinder tandem motor
- 2 dryers
- 2 x 50Hz-3kW-7.2A
- 476N l/min
- 150 Litres
- 74dB(A)
- W1320 D590 H890 (mm)
- Weight: 168kg

Code	Description
CATT-013530	AC600 with Dryer



### AC900 with Dryer

- 14 - 18 surgeries
- 3 cylinder tandem motor
- 3 dryers
- 3 x 3 - 50Hz-4.5kW-11.1
- 714N l/min
- 300 Litres
- 75dB(A)
- W1800 D810 H1000 (mm)
- Weight: 278kg

Code	Description
CATT-013599	AC900 with Dryer



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## Oil Free Air Compressors VT Range Bambi Compressors

Quality is the primary component built into each Bambi VT Oil Free Compressor. At the heart of the VT range is the Vee Twin pump unit with one of the lowest noise levels of any oil free compressor available, made possible by the very latest "tilting piston" technology.

Perfect when you demand the highest possible air quality for critical applications and when low maintenance is essential.

### Bambi VT75/VT75D

Model								
VT75/VT75D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwd
	120	24	8	0.55 0.75	220-240/50	72	29	63x50x41
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/MIN	108	96	85	74	65	57	48	45

D denotes dryer equipped version

Code	Description
BAMB-VT75	Oil Free Single Surgery Compressor
BAMB-VT75D	Free Single Surgery Compressor (Dryer)



### Bambi VT150/150D

Model								
VT150/VT150D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwd
	175	50	8	1.1 1.5	220-240/50	74	40	84x50x41
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	159	153	142	130	119	110	99	96

D denotes dryer equipped version

Code	Description
BAMB-VT150	Oil Free Two/Three Surgery Compressor
BAMB-VT150D	Oil Free Two/Three Surgery Compressor (Dryer)



### Bambi VT200/VT200D

Model								
VT200/VT200D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwd
	220	50	8	1.5 2.0	220-240/50	74	44	85x50x41
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	193	178	164	150	142	130	122	116

D denotes dryer equipped version

-40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VT200	Oil Free Four Surgery Compressor
BAMB-VT200D	Oil Free Four Surgery Compressor (Dryer)





## Bambi VT250/VT250D



Model								
VT250	L/Min	Ltrs	Bar	kW HP	Volts/Hz	dB(A)	KG	CM-hxwd
	300	59	8	1.84 2.5	220-240/50	74	62	82x66x38
VT250D	L/Min	Ltrs	Bar	kW HP	Volts/Hz	dB(A)	KG	CM-hxwd
	300	59	8	1.84 2.5	220-240/50	74	84	82x66x57
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	280	265	248	222	210	188	179	160

40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VT250	Oil Free Four/Five Surgery Compressor
BAMB-VT250D	Oil Free Four/Five Surgery Compressor (Dryer)



## Bambi VT300/VT300D



Model								
VT300/VT300D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwd
	350	100	8	2x1.1 2x1.5	220-240/50	76	75	77x115x40
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	318	306	284	260	238	220	198	192

D denotes dryer equipped version - Dimensions 78x115x51cm  
-40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VT300	Oil Free Five/Six Surgery Compressor
BAMB-VT300D	Oil Free Five/Six Surgery Compressor (Dryer)

## Oil Free Air Compressors VTS - Silent Range



There are times when the compressor has to be sited near the point of use and for these installations Bambi have developed the VTS Models which are almost inaudible when running and are perfect when no noise is essential.

Not just an acoustic hood but a dedicated silent range. Engineered from the ground up, with a stunning design. Having the same innovative features and technological advances as the standard VT models, this additional range has been developed to deliver the highest quality of compressed air with noise levels from as low as 54 dB(A).



## Bambi VTS75/VTS75D



Model								
VTS75/VTS75D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwd
	120	23	8	0.55 0.75	220-240/50	54	64	64x93x44
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	108	96	85	74	65	57	48	45

D denotes dryer equipped version  
-40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VTS75	Silent Oil Free Single Surgery Compressor
BAMB-VTS75D	Silent Oil Free Single Surgery Compressor (Dryer)

## Bambi VTS150/VTS150D

BAMBI

Model								
VTS150/VTS150D	L/Min	Ltrs	Bar	Kw HP	Volts/Hz	dB(A)	KG	CM-hxwxd
	175	23	8	1.1 1.5	220-240/50	54	64	64x93x44
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	159	153	142	130	119	110	99	96

D denotes dryer equipped version  
 -40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VTS150	Silent Oil Free Two Surgery Compressor
BAMB-VTS150D	Silent Oil Free Two Surgery Compressor (Dryer)



## Bambi VTS200/VTS200D

BAMBI

Model								
VTS200	L/Min	Ltrs	Bar	kW HP	Volts/Hz	dB(A)	KG	CM-hxwxd
	220	23	8	1.5 2.0	220-240/50	55	69	65x93x48
VTS200D	L/Min	Ltrs	Bar	kW HP	Volts/Hz	dB(A)	KG	CM-hxwxd
	220	23	8	1.5 2.0	220-240/50	55	76	65x93x48
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	193	178	164	150	142	130	122	116

-40°C Dewpoint based on 50% duty cycle

Code	Description
BAMB-VTS200	Silent Oil Free Four Surgery Compressor
BAMB-VTS250D	Silent Oil Free Four Surgery Compressor (Dryer)



## Bambi VTS250/VTS250D

BAMBI

Model								
VTS250	L/Min	Ltrs	Bar	KW HP	Volts/Hz	dB(A)	KG	CM-hxwxd
	300	59	8	1.84 2.5	220-240/50	55	122	90x75x74
VTS250D	L/Min	Ltrs	Bar	KW HP	Volts/Hz	dB(A)	KG	CM-hxwxd
	300	59	8	1.84 2.5	220-240/50	55	131	90x75x74
FAD	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
L/Min	280	265	248	222	210	188	179	160

Code	Description
BAMB-VTS250	Silent Oil Free Four Surgery Compressor
BAMB-VTS250D	Silent Oil Free Four Surgery Compressor (Dryer)



## Compressors - Oil Based

## Bambi 75/150

BAMBI

- Designed for a single surgery requiring high quality air supply with low noise levels
- With sound levels of just 55dB(A) and almost no vibration, this oil-based compressor can be situated within the surgery

Code	Description
BAMB-75/150	Bambi 75/150
BAMB-BPB1130	Breathing Air Filter
BAMB-BPB-0170	Air Filter Element
BAMB-BPB-0171	Oil Filter Element
BAMB-BPB0110	Compressor Oil





## Suction/Separation Systems

### Durr Suction Systems



#### VS 300S

- This unit is designed for a single surgery.
- Due to its compact size (H 36 x W 26 x D 26cm) and quiet operation (only 63Db(A)), it can be located within the surgery
- An optional noise reduction hood is also available to reduce noise further to just 53Db(A)

Code	Description
DURR-7122-01/002	VS 300 S combined suction unit
DURR-7122-200-00	Optional Noise reduction hood
DURR-7130-190-00	Optional Wall plate

- Virtually maintenance free, the only requirement is to regularly replace the filters

Code	Description
DURR-0725-041-00	Disposable yellow filters (box 12)

- If it is not possible to pipe the exhaust air outside via a pipe, the exhaust air can be conducted into the room via a bacterial filter
- The bacterial filter must be sterilised every three months and replaced annually

Code	Description
DURR-7120-143-00	Exhaust air bacterial filter



#### VS 600S

- This unit is designed for up to three treatment positions with two operators working simultaneously
- Physical dimensions are H 50 x W 42 x D 41cm and the noise level is only 63Db(A).

Code	Description
DURR-7128-01/002	VS 600S Central combined suction unit



#### VS 900S

- This unit is designed for up to five treatment positions with three operators working simultaneously
- Physical dimensions are H 55 x W 42 x D 41cm. Noise level is 54Db(A)

Code	Description
DURR-7134-01/002	VS 900S Central combined suction unit

Optional extras for both VS600 and VS900 units

Code	Description
DURR-7130-190-00	Wall plate
DURR-7130-191-00	Console for floor installation

Exhaust Silencers and Bacterial filters also available. Call for details.



## Durr Separation Systems

### CS 1



- The CS 1 Combi-Sepamatic is designed for integration within the dental unit and combines quiet, powerful suction with two-stage separation of secretions and solid particles
- The CS 1 is compact and allows for flexible installation because the required position select valve can be installed independently in the spittoon or in the floor box
- Available with or without a rinsing unit with position select valve



Code	Description
DURR-7117-71	CS 1 without rinse unit
DURR-7117-70	CS 1 with rinse unit

### VSA 300S



- Combining suction, separation and amalgam separation.
- Designed for a single surgery
- Amalgam is separated from other waste and trapped in a removable cup
- Dimensions: H 45 x W 26 x D 26cm.



Code	Description
DURR-7125-01/002	VSA 300 S Combined suction/amalgamation unit
DURR-7122-200-00	Optional Noise reduction hood

### CA4 Amalgam Separator



- The Durr CA4 Amalgam Separator is an independent unit which can be added to any suction system to provide reliable amalgam separation
- The operation of the CA4 is based on the centrifugal principal with hydro-dynamic self-cleaning
- It attains a separation rate of 98.9% at a maximum rate flow of 16 litres per minute
- Where the CA4 is used in combination with the Durr VS600S or VS900s suction systems, pressure equalisation pipes are required together with either a wall mounting or floor console



Code	Description
DURR-7805-100-50	CA4 Amalgam Separator without cover
DURR-7130-991-51	Pressure equalisation tank for VS600 & VS900
DURR-7130-190-00	Wall Plate
DURR-7130-191-00	Floor Stand Console



## CAS1



- Designed for installation within the dental unit Small, compact, quiet and easy to install, the CAS 1 Combi-Separator combines air-water separation and amalgam separation
- The amalgam separator is on the same shaft as the air-water separator but not directly connected to it, thus saving the use of a spittoon valve
- Cushioned hose connections ensure low-noise, vibration-free operation
- Fully integrated display module
- Position selection valve can be flexibly installed. Available with optional rinsing unit and optional housing/transformer for chair-side installation if required

Code	Description
DURR-7117-20	CAS 1 Combi-Separator incl. Position select valve



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## Cattani Suction Systems

### Turbo Jet 1

- Compact single suction motor that is small enough to be housed inside a standard sized cabinet within the surgery
- Low noise level
- Dimensions: W450 D440 H400 (mm)
- Weight: 33kg

Code	Description
CATT-029625	Turbo Jet 1 with amalgam separation
CATT-026121	Turbo Jet 1 without amalgam separation



### Turbo Smart

- Central suction system which can be simply upgraded from two to four surgeries with just a password
- Innovative, variable speed suction which instantly adapts to any change in use. It speeds up when a suction tip is opened and when other surgeries are using the unit and slows down when demand decreases without effecting performance.
- Extremely reliable and easy to use with multi function digital display
- Available with or without amalgam separation
- Dimensions: W400 D335 H650 (mm)
- Weight: 45kg

Code	Description
CATT-035115	2 surgeries with amalgam separation
CATT-035105	2 surgeries without amalgam separation
CATT-035500	Password to upgrade to 4 surgeries
CATT-035115	Version A with amalgam separation



### Micro Smart

- Designed for single surgery use, the compact Smart suction system combines unique, multi-level power and automatic speed control with the most effective cyclone amalgam separator available
- 1 surgery
- 1.12kw-6.3A 230v 50Hz
- 916 l/min
- 210mbar
- 64-71dB(A)
- W380 D350 H600 (mm)
- Weight: 37kg

Code	Description
CATT-035050	Micro Smart without amalgam separation
CATT-035060	Micro Smart with amalgam separation





## Cattani Separation Systems



## Micro Smart Cube

- Complete with ISO6 amalgam separator
- >98% separation rate tested by TuV - Essen. Germany
- 3 preset suction levels
- High flow & high vacuum
- 1 surgery
- 1.12kw-6.3A 230v 50Hz
- 916 l/min
- 210mbar (continuous service)
- 59dB(A)
- W430 D365 H465 (mm)
- Weight: 38kg

Code	Description
CATT-035030	Micro SmartCube with amalgam separation



## Turbo Smart 2V

- Complete with ISO18 amalgam separator
- Programmable vacuum level
- Automatically alters vacuum on demand in 4-6 surgeries
- Multi-function digital display – vacuum level, temperature, servicing, amalgam separation, fault diagnosis & programming
- Complete with silencer & installation kit
- Systems can run continuously
- up to 6 surgeries (4 running simultaneously)
- 1.8kW-9A
- 1700 l/min
- 275mbar (continuous service)
- 69.8dB(A)
- W423 D360 H650 (mm)
- Weight: 50kg

Code	Description
CATT-035135	Turbo Smart 2V



## Turbo Smart Cube

- Complete with ISO18 amalgam separator
- >98% separation rate tested by TuV - Essen. Germany
- Programmable vacuum level
- Automatically alters vacuum on demand in 4 surgeries
- Complete with silencer & installation kit
- Multi-function digital display
- 2 surgeries
- 1.22kw-7A
- 1400 l/min
- 210mbar (continuous service)
- 58.4dB(A)
- W510 D395 H655 (mm)
- Weight: 45.5kg

Code	Description
CATT-035135	Turbo Smart 2V

# SMART SUCTION

## DELIVERING UNBEATABLE PERFORMANCE

### OVER 40 YEARS OF INNOVATION

Cattani's range of SMART suction systems provide unbeatable performance and power for single and multiple surgeries.

Our latest single surgery 'Micro Smart Cube' and 2-4 surgery 'Turbo Smart Cube' systems are energy efficient and allow the user more flexibility for installation. These systems are smaller, quieter but do not compromise on power and performance all thanks to our new innovative technology. These systems can connect wirelessly enabling professionals to check and adjust suction without leaving the surgery.

Turbo Jet 1 is a cost effective single surgery pump with a powerful uni-jet motor, designed for use with tip supports which are unit or cabinet mounted.



Cattani single surgery 'Micro Smart' and multiple surgery 'Turbo Smart' and 'Turbo Smart 2V' systems utilise an industry first variable speed drive, reducing noise, heat and power consumption.



Cattani also provide systems for hospitals and large clinics, please contact us for further information.

**All Cattani Smart suction systems are supplied with a 1 year warranty\* (subject to Terms and Conditions of servicing schedule).**



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**We reduce environmental impact:** we save 50% of primary materials, and allow you to save between 30% and 50% of electrical consumption.





## Mobile Suction Systems



### Aspi-Jet

- Main suction use or, as an emergency back up
- Suction motor is protected with a thermal device
- Canister level control for motor protection
- 1 surgery
- 0.4kW 230V 3.1A
- 400 l/min (at 16mm tip)
- 160mbar max
- 65dB(A)
- W500 D350 H760 (mm)
- Weight: 41kg

Code	Description
CATT-010011	Aspi-Jet

## Accessories



### Tip Support for Suction Manifold

- 1 x 16mm outlet
- 1 x 11mm outlet
- Diaphragm selection of terminals
- 2m Ø 25 spiral tube.
- W=135mm D=105mm H=118mm

Code	Description
CATT-030031	Tip Support



### Durr Position Select Valve

- The Combined Suction unit is automatically switched on by the spittoon bowl valve
- As soon as the bowl rinsing is activated, the open suction hoses can create disturbing noises in treatment units with hose manifolds without selective control
- These disturbing noises are eliminated when a position selection valve is fitted

Code	Description
DURR-7560-500-	Position Select Valve



### Durr Spittoon Valves

- If a Combined Suction unit with an amalgam separator is connected to a chair with a spittoon bowl, the waste water from the bowl rinsing must drain into the suction pipeline via a spittoon valve (in order to trap amalgam fragments)
- A spittoon valve is required for a chair with a spittoon where there is no separate waste pipe provided for in the floor area where the chair connects to the services

Code	Description
DURR-7560-500-51	For build into Treatment unit, no connections
DURR-7560-500-64	For build into Floor Box, no connections
DURR-7560-570-53	For build into Floor Box, with connections
DURR-7560-570-54	For A-dec 500 with full connections



### Durr Suction Filters

- Yellow disposable filter for separators and manifold
- Pack 12

Code	Description
DURR-0725-041-00	Pack of 12 Filters