



## CARPET MAINTENANCE - NEW PRODUCT GUIDE



# QUIET WALK-BEHIND BATTERY EXTRACTOR

- **QUIET 60 DB(A):** perfect for the hospitality and healthcare industries
- **EFFICIENT:** clean over 4,000 sq ft per hr. saving you time and money
- **USAGE:** both interim maintenance and restorative cleaning
- **SMART KIT READY:** onboard pre-spraying at 5x the rate of a pump sprayer

Rugged and quiet, the AVB 12QX cleans for **3 HOURS ON BATTERY POWER** – three 12 Volt 100 Ah Gel Batteries and an onboard charger.

The unit features a 100 PSI diaphragm pump with bypass and a powerful 3 stage, 1.2 Hp vacuum motor that's rust-resistant, ensuring a long working life while also providing **100" OF LIFT** – unheard of in the industry.

The variable flow rate, coupled with adjustable brush pressure, allow it to be used for **BOTH INTERIM MAINTENANCE AND RESTORATIVE CLEANING**. And, the push forward design is **MORE ERGONOMIC**, making it easier to use than a standard pull-back extractor.

Other key features include its easy-access removable spray bar with twist-off jets. The spring-loaded, pivoting vacuum shoe gives you consistent pressure and pick-up, even on turns, while notching improves airflow for **REDUCED DRYING TIME**. The vacuum shoe has a quick release for fitting the optional hard floor squeegee. All chemical is injected downstream of the pump so only water flows through the valves, solenoids and pump preventing chemicals from clogging the system.



AVB 12QX

## MODEL

## AVB 12QX

<b>VACUUM MOTOR</b>	850W, 1.2 Hp, 3 stage
<b>AIRFLOW</b>	85 cfm
<b>WATERLIFT</b>	100"
<b>BRUSH MOTOR</b>	250 W, .33 Hp
<b>BRUSH SPEED</b>	850 rpm
<b>CLEANING WIDTH</b>	20"
<b>WEIGHT: with Batteries</b>	360 lbs.
<b>PUMP TYPE</b>	diaphragm with bypass

<b>PUMP: Power</b>	80W
<b>PUMP: Pressure</b>	100 psi
<b>PUMP: Flow</b>	1.2 gpm
<b>CAPACITY: Solution</b>	12 gal.
<b>CAPACITY: Recovery</b>	12 gal.
<b>BATTERIES: Gel Type</b>	3 x 12V - 100 Ah
<b>CHARGER</b>	On-board
<b>SOUND LEVEL</b>	60 dB(A)

# WALK-BEHIND CARPET EXTRACTOR

- **EFFICIENT:** clean over 4,000 sq ft per hr. saving you time and money
- **USAGE:** both interim maintenance and restorative cleaning with **LOW MOISTURE SPRAY BAR.**
- **SMART KIT READY:** onboard pre-spraying at over 15,000 sq ft/hr, 5x the rate of a pump sprayer
- **ERGONOMIC** push-forward design

The **LARGE 18 GALLON TANKS** of the AV 18SX enable it to tackle even the biggest commercial jobs. But don't think it's heavy because with the upper and lower tanks detaching into two separate units, the AV 18SX is also lightweight and **EASY TO TRANSPORT.**

Our spring loaded vacuum shoe can be adjusted, delivering consistent pressure for different carpet thicknesses and is designed to ensure pickup on uneven floors and in turns. For hard floors, the vacuum shoe is easily substituted with an optional squeegee. Also included is an easy-access removable spray bar with twist-off jets.

At upwards of 4,000 sq.ft./hour of cleaning, that's **TWICE THE RATE OF STANDARD PULL-BACK EXTRACTORS** with less operator fatigue.

The powerful 2 Hp, 3 stage vacuum motor has been specially treated to prevent rust and provides 140" of waterlift and 85 cfm of airflow. A long-life 100 PSI diaphragm pump with bypass provides variable flow up to 1.2 gpm.

All chemical is injected downstream of the pump so only water flows through the valves, solenoids and pump preventing chemicals from clogging the system.

Optional features include the **SMART KIT** and **LOW MOISTURE SPRAY BAR.**



AV 18SX

## MODEL

## AV 18SX

<b>VACUUM MOTOR</b>	1400 W, 2 Hp, 3 stage
<b>AIRFLOW</b>	85 cfm
<b>WATERLIFT</b>	140"
<b>BRUSH MOTOR</b>	100 W
<b>BRUSH SPEED</b>	600 rpm
<b>CLEANING WIDTH</b>	20"
<b>WEIGHT</b>	140 lbs.
<b>PUMP TYPE</b>	diaphragm with bypass

<b>PUMP: Power</b>	100 W
<b>PUMP: Pressure</b>	100 psi
<b>PUMP: Flow</b>	1.2 gpm
<b>CAPACITY: Solution</b>	18 gal.
<b>CAPACITY: Recovery</b>	18 gal.
<b>POWER CORD</b>	50'

# TEMPEST® EXTRACTORS

- **FAST DRYING** times
- **USAGE:** professional carpet cleaners
- **SMART KIT READY:** onboard pre-spraying at over 15,000 sq ft/hr versus 5,000 sq ft with a pump sprayer

For the professional carpet cleaner, the TP 18SX-HP is a premium extractor featuring a **400 PSI PISTON PUMP** with a bypass providing 1.25 gpm of flow. Even the biggest commercial jobs can be tackled with its **LARGE 18 GALLON TANKS**.

All chemical is injected downstream of the pump so only water flows through the valves, solenoids and pump preventing chemicals from clogging the system.

The TP SX-HP's 2 Hp 3 stage vacuum motor provides **140" WATERLIFT** and 85 cfm of airflow, ensuring excellent soil recovery and faster drying times.

The easily adjustable wand handle provides **PROPER ERGONOMICS** and the on-board storage of hoses and wand plus detachable tanks provide easy transport from job to job.

Comes complete with a 20' solution/vacuum hose and a 3 jet wand uniquely designed to provide good suction and water recovery at any angle.

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NACE CARE SOLUTIONS



**TP 18SX-HP**

Standard with  
**SMART KIT**



**TP 18SX-HP**

Shown with **HT 1800**  
optional heater

## Optional Heater

For all TP models and all electric AV models, the HT 1800 in-line water heater conveniently mounts to the rear part of the machine. The heating element has an operating and hi-limit thermostat for safety.

## MODEL

## TP 18SX-HP

<b>VACUUM MOTOR</b>	1,400 W, 2 Hp 3 stage
<b>AIRFLOW</b>	85 cfm
<b>WATERLIFT</b>	140"
<b>PUMP: Type</b>	diaphragm with bypass
<b>PUMP: Pressure</b>	400 psi
<b>PUMP: Power</b>	180 W, 0.25 Hp
<b>PUMP: Flow</b>	1.25 gpm
<b>CAPACITY: Solution</b>	18 gal.
<b>CAPACITY: Recovery</b>	18 gal.
<b>WEIGHT</b>	95 lbs.
<b>POWER CORD</b>	42'

## MODEL

## HT 1800

<b>POWER</b>	1,800 W		
<b>VOLTAGE</b>	120V, 50/60Hz		
<b>POWER CORD</b>	50'		
<b>DIMENSIONS: l / w / h</b>	4.3" / 6.3" / 13.3"		
<b>WEIGHT</b>	14 lbs.		
<b>TEMPERATURE</b>	160° F max.		
<b>PRE-HEATING</b>	8 gal.	12 gal.	18 gal.
15° F Increase	7 min.	10 min.	15 min.
<b>IN-LINE HEATING</b>	<b>Hand tool   3-jet wand</b>		
Temp	114° F	100° F	50% flow
	76° F	66° F	75% flow
	57° F	50° F	100% flow

# JUST FOR CARPETS AND JUST FOR SPOTS

- **DOESN'T RE-SOIL** your carpets like other products
- dries to an **EASILY-VACUUMED POWDER**
- allows your carpet to **DRY FASTER**



The #1 benefit of **JUST FOR CARPETS** and **JUST FOR SPOTS** is that they don't re-soil your carpets like other products you may be using.

Many of the spots and stains we see on carpets today aren't actually stains. They are stains that have been removed and a residue has been left behind that re-soils quickly and looks like the stain has wicked back.

**JUST FOR CARPETS** is a **TRUE 3RD GENERATION ENCAPSULANT**. It uses dehydration phase cleaning which means soils and chemical residues (other products in the carpet) are dehydrated into a powder and can be easily vacuumed up.

**1ST GENERATION ACRYLIC CO-POLYMERS** (floor finish) dry hard and can change the texture of your carpet and possibly fill the dye sites, locking soil to your carpet.

**2ND GENERATION FLUOROCARBONS** (Teflon), used in carpet protectors, don't prevent re-soiling because the dilution is so low. They are also hygroscopic, meaning they actually attract moisture from the air which prolongs drying time tremendously, making them a poor choice for low moisture cleaning.

Because low moisture cleaning requires pre-spraying to do an effective job yet uses so much less water than a full extraction cleaning, chemical residues are left behind in far greater abundance. The chemical you use is critical. If the proper chemical isn't chosen, significant residue will be left behind and the downward spiral of re-soiling will begin.

**TAKE THE NACECARE CHALLENGE:** See what your chemical looks like when it dries by pouring it into a petri dish and letting it dehydrate. Or clean a test area of carpet with **JUST FOR CARPETS** versus another product and see which area re-soils first.



**LEFT:** 1st Generation Acrylic Polymer

**Right:** NaceCare **JUST FOR CARPETS**

# PERFORMANCE AND COST

## HOW TO READ THESE CHARTS

### WHICH UNITS PROVIDE IMPROVED CARPET APPEARANCE ON A CONTINUOUS BASIS AT A LOWER COST ALONG WITH PROLONGED CARPET LIFE?

#### CHART 1 - PERFORMANCE AND COST COMPARISON

Compare the different equipment and see which has the ability to cost effectively clean both **RESTORATIVELY** and on an interim basis as part of a regular **MAINTENANCE** schedule (in low moisture mode). This will help show the flexibility a machine has to maximize your equipment investment.

Review the **CLEANING TIME PER TANK**, the **FILL/EMPTY TIME** and the **TOTAL TIME USED PER TANK** – this will tell you how long you can clean before filling again. **A FILL TIME OF 5 MINUTES IS EXTREMELY LOW.**

Note that **DATA FROM ISSA** has been used in calculating the **ACTUAL SQUARE FEET CLEANED IN 8 HOUR SHIFT** (a Shift = 7 hours of work plus a 1 hour break).

#### CHART 2 - PAYBACK MODEL

Our simple payback model is easy to understand.

Using a price per square foot for restorative cleaning of 10 cents, divide this into the square feet cleaned per hour. This provides you with how much the unit generates in revenue in an hour.

Then take the cost of the machine from NaceCare's price list and divide it by the revenue generated per hour to achieve the Payback time. We have not factored labor or chemical costs into this analysis.

#### CHART 3 - COST OF CLEANING MODEL

Using 3 specific-sized **AREAS TO BE CLEANED** (A2bC) and using the **ACTUAL SQ. FT CLEANED PER HR** (ASFCpH) from the Performance Comparison Chart, divide A2bC by ASFCpH to determine how many hours are required to complete the job. Multiply the number of hours by \$10 (per hour labor rate) to calculate the labor cost to complete a job of that size.

#### GENERAL INFORMATION

It should be noted that the time savings while using the **SMART KIT** are not factored into any of the results above. Pre-spraying, a critical and required element in carpet cleaning, is 5 times faster when using a **SMART KIT**. It should be noted that actual fill/empty times are closer to 10 minutes.

# PERFORMANCE AND COST

## PERFORMANCE AND COST COMPARISON MODEL

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MACHINE	PROCESS	TANK SIZE	FLOW RATE	CLEANING TIME PER TANK	FILL/EMPTY TIME	TOTAL TIME USED PER TANK	ISSA SQ. FT./HR.	ACTUAL SQ. FT. CLEANED PER HR.	ACTUAL SQ. FT. CLEANED PER 8 HR. SHIFT
<b>AV 18 AX</b>	Maintenance	18 gal.	0.2 gpm	90 min.	5 min.	95 min.	4,000	3,789	26,526
<b>AV 18 AX</b>	Restorative	18 gal.	1.0 gpm	18 min.	5 min.	23 min.	4,000	3,130	21,913
<b>AV 12 QX</b>	Maintenance	12 gal.	0.2 gpm	60 min.	5 min.	65 min.	4,000	3,692	25,846
<b>AV 12 QX</b>	Restorative	12 gal.	1.0 gpm	12 min.	5 min.	17 min.	4,000	2,824	19,765
<b>DP 420</b>	Maintenance	1.6 gal.	NA	20 min.	5 min.	25 min.	2,500	2,000	14,000
<b>DP 340</b>	Maintenance	1.1 gal.	NA	20 min.	5 min.	25 min.	2,000	1,600	11,200
<b>16" PULL BACK</b>	Restorative	10 gal.	1.0 gpm	10 min.	5 min.	15 min.	1,714	1,143	7,999
<b>16" PULL BACK</b>	Restorative	8 gal.	1.0 gpm	8 min.	5 min.	13 min.	1,714	1,055	7,383
<b>20" BONNET</b>	Maintenance	NA	NA	30 min.	5 min.	35 min.	955	819	5,730
<b>17" BONNET</b>	Maintenance	NA	NA	30 min.	5 min.	35 min.	860	737	5,160
<b>TP 18 DX</b>	Restorative	18 gal.	1.0 gpm	18 min.	5 min.	23 min.	550	430	3,013

## COST RECOVERY MODELS

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### PAYBACK MODEL

MACHINE	PROCESS	ACTUAL SQ. FT. CLEANED PER HOUR	PAYBACK IN HRS. OF USE
<b>AV 18 AX</b>	Maintenance	3,789	12
<b>AV 18 AX</b>	Restoration	3,130	14
<b>AV 12 QX</b>	Maintenance	3,692	8
<b>AV 12 QX</b>	Restoration	2,824	11
<b>DP 420</b>	Maintenance	2,000	12
<b>DP 340</b>	Maintenance	1,600	14
<b>16" PULL BACK</b>	Restoration	1,143	23
<b>16" PULL BACK</b>	Restoration	1,055	27
<b>20" BONNET</b>	Maintenance	819	12
<b>17" BONNET</b>	Maintenance	737	12
<b>TP 18 DX</b>	Restoration	430	36

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### COST OF CLEANING MODEL

	AREA TO BE CLEANED (SQ. FT.)		
	25,000	50,000	100,000
	\$ 66	\$ 132	\$ 264
	\$ 80	\$ 160	\$ 319
	\$ 68	\$ 135	\$ 271
	\$ 89	\$ 177	\$ 354
	\$ 125	\$ 250	\$ 500
	\$ 156	\$ 313	\$ 625
	\$ 219	\$ 437	\$ 875
	\$ 237	\$ 474	\$ 948
	\$ 305	\$ 611	\$ 1,221
	\$ 339	\$ 678	\$ 1,357
	\$ 581	\$ 1,163	\$ 2,326

# THE NACECARE SYSTEM

Until now, due to the limitations of both machines and chemicals, increasing the frequency of cleaning in both high or low moisture areas was very much a case of you can pay now or you can pay later. You can now afford to clean regularly with low moisture creating no chemical build-up or re-soiling issues at 4000 sq ft per hour.

## UNDER THE NACECARE SYSTEM, YOU REALLY CAN:

- Improve Carpet Appearance with less visual fluctuation.
- Greater Productivity and Cost Effective Cleaning.
- Prolong Carpet Life.
- Have Faster Drying Times.
- Improve IAQ.

## THE THREE KEY HIGHLIGHTS OF OUR SYSTEM ARE:

- 1/ IMPROVED PRODUCTIVITY THAT ALLOWS FOR A REGULAR COST-EFFECTIVE CARPET MAINTENANCE SCHEDULE SIMILAR TO WHAT YOU USE NOW FOR HARD SURFACES.**
- 2/ FLEXIBILITY IN EQUIPMENT DESIGN ALLOWING FOR LOW MOISTURE CLEANING OF EVERYTHING FROM HOTEL ROOMS TO CONVENTION CENTRES.**
- 3/ A CLEANING CHEMICAL WHERE THE PRODUCT DRIES TO A POWDER AND DOES NOT RE-SOIL YOUR CARPETS.**

### 1/ IMPROVED PRODUCTIVITY:

Pre-spraying is a critical step in effective carpet cleaning. The **SMART KIT** takes carpet cleaning **FROM A TWO MAN JOB TO A ONE MAN JOB** and allows your carpets to be pre-sprayed 5 times faster than with pump sprayers. Your staff aren't running back to the sink to refill the sprayer every 10 minutes or the machine every 15 - 20 minutes.

NaceCare equipment cleans anywhere from 2,000 to **OVER 4,000 SQ FT PER HR.** allowing for far greater frequencies of cleaning. You maintain your carpet like you would if it was a hard floor while taking the fluctuation out of your carpets' appearance and prolonging its life.

### 2/ FLEXIBILITY IN EQUIPMENT DESIGN:

A low moisture system in both our battery and electric units means your **CARPET DRIES IN 20 - 60 MINUTES.**

### 3/ A CLEANING CHEMICAL THAT DOES NOT RE-SOIL:

It's often said that carpet stains continually reappear after removal. **JUST FOR CARPETS** stops reappearing stains because your carpets won't re-soil.

Low moisture cleaning still employs a pre-spray system where chemical is left on the carpet. Because less flushing occurs, **YOUR CHOICE OF CHEMICAL IS CRITICAL.** It's not how good your carpet looks the day after it's cleaned – it's how good it looks 30 days later.

With the NaceCare system you're no longer fighting against yourself by leaving sticky residue behind.



#### AV 12 QX

Shown with optional **SMART KIT** and optional hose and wand.



Pre-spraying with our **SMART KIT**

NaceCare carries a full range of cleaning solutions to meet your needs. Ask your NaceCare representative for the latest catalogues.

- Commercial Cleaning Equipment
- Janitorial Carts and Restroom Care
- Carpet Maintenance Systems
- Floorcare Equipment
- Hospitality

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