ECO-FRIENDLY WET-CLEANING
With the use and disposal of chemicals getting more and more regulated, this leads the laundry industry use more ecological cleaning methods. One of these cleaning methods which has gained popularity in particular is wet-cleaning, an environmentally-friendly cleaning process that cleans the most delicate garments without damaging sensitive fibers.

IPSO has developed an ecological wet-cleaning concept called Smart-CLEAN allowing an eco-friendly & efficient cleaning of the most delicate textiles. Smart-CLEAN comes available on IPSO’s state-of-the-art washer-extractors and tumblers, which delivers outstanding performance.

IPSO’s wet-cleaning concept, your eco-friendly cleaning process for delicate textiles.

The new D-line of washers, equipped with Cygnus Controls and SmartWAve technology, are built for heavy-duty strength and performance. Cygnus Controls lead the market as the most comprehensive controls in the industry, allowing maximum flexibility during the programming of wash programmes.

SmartWAve, IPSO’s newest energy saving technology based on Water Absorption Technology, determines the absorption level of the linen and consequently adjusts the water level in every segment of the wash programme. Resulting in a considerable saving in water consumption.

The DR-range of tumblers is equipped with Over-Dry Prevention Technology (OPT), an industry-exclusive innovation which eliminates over-drying and reduces utility consumptions considerably.

IPSO’s Smart-CLEAN-concept undoubtedly brings the cleaning of your delicate garments to a higher level in respect of the environment.
What is wet-cleaning and how does it work?

Wet cleaning is a non-toxic, environmentally safe process to clean delicate garments, utilizing computer-controlled equipment, biodegradable soaps and conditioners, and specialized equipment for the many different fabric and fiber types. Therefore, wet cleaning has become an important aspect in modern textile care, including dry-cleaning shops.

**WET-CLEANING PROCESS**

- **SORTING**
- **SPOTTING**
- **CLEANING**
- **DRYING**
- **FINISHING**

**HOW DOES WET CLEANING WORK?**

Wet Cleaning does not use organic solvents, but rather a small amount of water and special detergents. In contrast to household washing machines, forceful mechanical movement of the linen is avoided – meaning that delicate items can also be cleaned in this way. Shrinkage during the cleaning process is prevented by washing briefly at low temperatures with only slight mechanical movements, and by adding special agents. Fibre-protecting components in the detergent can prevent fibres from swelling and wool from losing its scales. Shrinkage while drying can be minimized by drying the clothing quickly under pressure at a high temperature, with special drying cabinets and drying dummies having been developed for this. The clothing is stretched wet onto the dummy, and dried by the hot air in around 5 minutes.

**SYMBOLS FOR WET CLEANING**

The symbol for wet cleaning is used for fabrics which may be treated in water by a professional wet-cleaning process. The requirements placed on the professional equipment, the aids used and the finishing methods cannot be achieved in household washing machines.

The following symbols appear (if they are used) immediately below the dry cleaning symbol.

| Professional wet-cleaning: | Normal wet cleaning methods with no restrictions. |
| Mild professional wet-cleaning: | Wet cleaning technique for sensitive textiles with reduced mechanical action. |
| Very mild professional wet-cleaning: | Wet cleaning techniques for very sensitive textiles with much reduced mechanical action. |
| Do not wet clean: | No professional wet-cleaning allowed. |
SMARTCLEAN, AN ECO-FRIENDLY CLEANING PROCESS GAINING IMPORTANCE IN THE LAUNDRY INDUSTRY

SmartCLEAN is recognized as an eco-friendly way to process delicate garments. Traditional dry cleaning, described as any cleaning process for clothing and textiles using chemical solvents other than water, gets more and more regulated in many countries. Therefore, SmartCLEAN offers the following advantages compared to traditional dry cleaning methods:

- **Legislation restrictions**: certain countries make new dry-cleaning facilities subject to strict and expensive approvals. This makes the use of solvents increasingly restrictive and complicated.

- **Environmental issues**: traditional dry-cleaning uses solvents and hydrocarbons which are very toxic and a threat to the environment. Furthermore, solvents can leave an unpleasant smell on the linen.

- **Linen lifespan**: many types of linen enjoy a longer lifespan in case they are processed by using more gentle cleaning methods such as wet-cleaning.

- **Health risks**: fumes are toxic to inhale and can cause burns to the skin of the operating personnel during handling.

- **Flexibility**: your SmartCLEAN laundry equipment can be used for wet-cleaning purposes as well as for traditional laundry purposes.

SUITABLE TYPES OF FABRICS FOR WET-CLEANING

The following types of fabrics are suitable for a wet-cleaning treatment:

- Clothing or items in wool, angora, silk and viscose
- Sports clothing and rain clothing with membrane systems
- Bed linen (duvets and woolen sheets)
- Curtains, flags
- Evening wear, wedding garments, suits
- Protective clothing (fire service, road works, etc.)
- Horse rugs
- Nursing home laundry
- Medical laundry
- ...

**ECO-FRIENDLY WET-CLEANING**

**WASHER-EXTRACTORS**

**TUMBLERS**

**IDEAL WET-CLEANING**
Washer-Extractors

The new D-line washer-extractors are industrial by design, durable and efficient.

- **Gentle mechanical action**: the frequency controlled motor guarantees a gentle mechanical action of the drum, resulting in a smooth operation of your washer.

- **Faster draining**: the 3” drain valve ensures a faster draining and a shorter cycle time.

- **Easy loading & unloading**: the large door (diameter 400mm) enables an easy loading and unloading of the linen, which is very convenient when dealing with larger pieces.

- **Multi-purpose use**: your washer can feature both wet-cleaning programs as well as normal wash programs. This results in a multi-purpose use of your washer.

SmartWAVE determines automatically the absorption ability of the type and amount of linen at the start of the cycle and consequently adjusts the water levels in every segment of the wash program to the ideal amount for this specific load. SmartWAVE also adjusts the water level in cases where the capacity of the washer is not completely used. Less linen in the washer means less water needed to clean.

As the filling ratio of a “wet-cleaning washer” is generally determined at 50%, while water levels are standard programmed for a 80% filling ratio. This means that SmartWAVE will adjust the water level, resulting in a considerable reduction of utility consumptions.

*REDUCES TIME*  
*REDUCES WATER CONSUMPTION*  
*REDUCES ENERGY CONSUMPTION*  
*REDUCES DETERGENT CONSUMPTION*
Cygnus Controls

IPSO's proprietary Cygnus Controls lead the market as the most comprehensive controls in the industry. Cygnus Controls give you the ability to modify every parameter, even during the wash cycle, all from the convenience of a PC or laptop.

Cygnus controls make doing laundry easier in five ways:

1. **Easy to Use**: the user-friendly features get your linen processing underway within seconds

2. **Flexible**: Cygnus Controls offer a flexible solution to any specific laundry environment

3. **Extremely Efficient**: the eco-friendly features save water, energy and time

4. **Serviceable**: the numerous service features allow you to schedule maintenance of your washer at the right time and thus extend its lifespan

5. **Analyzable**: Cygnus allows you to transfer wash programs and a complete log of all wash facts within seconds to your PC

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**CYGNUS PROFESSIONAL**

IPSO’s most extensive washer extractor control allowing unlimited flexibility. The large LCD-display provides the user with in-depth info on the wash cycle. Wash data and parameters can be modified, even during the wash cycle. Programme titles can be easily translated in every possible language (Russian, Japanese, Chinese, Korean, Arabic, …).

**CYGNUS PREMIUM**

IPSO’s extensive control with large LCD-display showing an overview of the wash programme by means of easy understandable symbols. Cygnus Premium enables the user to adjust parameters of wash programmes on the machine.

**CYGNUS ASSIST**

Get ahead with this comprehensive and easy-to-use software tool. Cygnus Assist software allows you to create and modify wash programs conveniently on a PC or laptop.
IPSO’s wide range of DR-tumblers are world renowned for their reliability, efficiency and durability. The technology and innovative design behind our machines make the drying process as efficient as possible. Users also have the variety of programming options that help save money on operating costs.

- The DR tumbler range features “Over-dry Prevention Technology” (OPT), an industry-exclusive, cutting-edge innovation which enables your tumbler to stop when a preset moisture level is reached. This avoids overdrying and results in a reduction of utility consumptions.
- The standard reversing feature ensures a gentle action during the drying process. It prevents tangling of the linen and results in more drying efficiency. It is recommended for items whose length exceeds the diameter measurements of the drum.
- The stainless steel drum reduces friction and pilling and is more gentle on fabrics and beads. Moreover, it is easy to clean and maintain.
- The large door opening enables an easy loading and unloading of the linen, which is very convenient when dealing with larger pieces.

Over-dry Prevention Technology (OPT) offers unmatched levels of accuracy, resulting in a pinpoint dryness reading throughout the entire load. Specialized sensors located within the lifters are connected to our revolutionary rotary transfer switch to determine the exact moment your linens are dry, which helps eliminate overdrying and increases throughput. Additionally, it reduces utility consumption, saving hundreds of euros a year in unnecessary energy costs.

OPT is available in IPSO’s OPTimum™ control, which offers 30 programmable drying cycles for greater operating efficiency and is easy to train staff to operate. It also delivers flexibility with simple customization of cycles.

The OPTimum control is available on all IPSO tumblers.

Your SmartCLEAN Product Range*

<table>
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<tr>
<th>MODEL</th>
<th>NORMAL FILLING RATIO 1/10</th>
<th>SMARTCLEAN FILLING RATIO 1/20</th>
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<tbody>
<tr>
<td>WASHER: HD135 MATCHING TUMBLER: DR30</td>
<td>13,2 KG PER LOAD</td>
<td>6,6 KG PER LOAD</td>
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<tr>
<td>WASHER: HD165 MATCHING TUMBLER: DR35</td>
<td>16,5 KG PER LOAD</td>
<td>8,3 KG PER LOAD</td>
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<tr>
<td>WASHER: HD235 MATCHING TUMBLER: DR55S</td>
<td>23,4 KG PER LOAD</td>
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<td>WASHER: HD305 MATCHING TUMBLER: DR75</td>
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<td>15,2 KG PER LOAD</td>
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</tbody>
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* Information about detergents & finishing equipment can be obtained through your local IPSO-Distributor.