



TW 300 S

TW 400

TW 1400 HD



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Total Cleaning
Confidence[™]

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Atestado de conformidade da UE

Alto Deutschland GmbH
Guido-Oberdorfer-Straße 2-8
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Produto: aparelho de extração e pulverização
Modelo: TW 300 S, TW 400, TW 1400 HD
Descrição: 230 V~, 50 Hz

A construção da máquina corresponde às seguintes normas específicas:

Directiva UE para máquinas	98/37/EEG
Directiva UE para baixa tensão	73/23/EEG
Directiva para a compatibilidade eletromagnética	89/336/EEG

Normas harmonizadas aplicadas:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Normas nacionais aplicadas e especificações técnicas:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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Testes e homologações

Bellenberg, 29.05.2001



Δήλωση ανταπόκρισης ΕΟΚ

Alto Deutschland GmbH
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Πρότυπ: Συσκευή ψεκασμού αναρρόφησης
Τύπος: TW 300 S, TW 400, TW 1400 HD
Περιγραφή: 230 V~, 50 Hz

Ο κατασκευαστικός τύπος της συσκευής ανταποκρίνεται στους ακόλουθους σχετικούς κανονισμούς:

Οδηγία περί μηχανών ΕΟΚ	98/37/ΕΟΚ
Οδηγία χαμηλών τάσεων ΕΟΚ	73/23/ΕΟΚ
Οδηγία περί ηλεκτρομαγνητικής συμβατότητας	89/336/ΕΟΚ

Εφαρμοσθείσες ενσωματωμένες προδιαγραφές:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Εφαρμοσθείσες εθνικές προδιαγραφές και τεχνικοί προσδιορισμοί:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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EF-konformitetserklæring

Alto Deutschland GmbH
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D-89287 Bellenberg

Προϊκτ: Sprøjtetekstraheringsapparat
Type: TW 300 S, TW 400, TW 1400 HD
Beskrivelse: 230 V~, 50 Hz

Apparatets konstruksjonstype er i samsvar med følgende gjeldende bestemmelser:

EF-maskindirektiv	98/37/EEC
EF-lavspændingsdirektiv	73/23/EEC
EF-direktiv elektromagnetisk kompatibilitet	89/336/EEC

Anvendte harmoniserte standarder:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Anvendte nasjonale standarder og tekniske spesifikasjoner:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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EG-försäkran om överensstämmelse

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Produkt: Sprutextraktionsapparat
Type: TW 300 S, TW 400, TW 1400 HD
Beskrivning: 230 V~, 50 Hz

Apparatens konstruktion motsvarar följande tillämpliga bestämmelser:

EG-maskindirektiv	98/37/EEG
EG-lågspänningsdirektiv	73/23/EEG
EG-direktiv EMC	89/336/EEG

Tillämpade harmoniserade normer:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Tillämpade nationella normer och tekniska specifikationer:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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EF-overensstemmelsesattest

Alto Deutschland GmbH
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Produkt: Sprøjt- og ekstraksjonsrensere
Type: TW 300 S, TW 400, TW 1400 HD
Beskrivelse: 230 V~, 50 Hz

Konstruktionen af dette apparat opfylder følgende gældende bestemmelser:

EF-maskindirektiv	98/37/EEF
EF-lavspændingsdirektiv	73/23/EEF
EF-direktiv vedr. elektromagnetisk fordragelighed	89/336/EEF

Anvendte harmoniserede standarder:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Anvendte tyske standarder og tekniske specifikationer:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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EY-Vaatumustenmukaisuusvakuutus

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Tuote: Suihkupuhdistuslaite
Tyyppi: TW 300 S, TW 400, TW 1400 HD
Kuvaus: 230 V~, 50 Hz

Tämän laitteen rakenne vastaa seuraavia määräyksiä:

EY-konedirektiivi	98/37/EEG
EY-pienjännittdirektiivi	73/23/EEG
EY-direktiivi EMV	89/336/EEG

Käytetyt harmonisoidut normit:

EN 292	
EN 60335-1, EN 60335-1-A6	
EN 60335-2-10, EN 60335-2-68	
EN 55014-1, EN 55014-2, EN 61000-3-2	

Käytetyt kansalliset normit ja tekniset spesifikaatit:

DIN EN 60335-1	
EN 60335-2-10	
EN 60335-2-68	

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EG - Konformitätserklärung

Alto Deutschland GmbH
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Erzeugnis: Sprühextraktionsgerät

Type: TW 300 S, TW 400, TW 1400 HD

Beschreibung: 230 V~, 50 Hz

Die Bauart des Gerätes entspricht folgenden einschlägigen Bestimmungen: EG-Maschinenrichtlinie 98/37/EG
EG-Niederspannungsrichtlinie 73/23/EWG
EG-Richtlinie EMV 89/336/EWG

Angewendete harmonisierte Normen: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Angewendete nationale Normen und technische Spezifikationen: DIN EN 60335-1
EN 60335-2-10
EN 60335-2-68

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Déclaration de conformité CE

Alto Deutschland GmbH
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Produit: Injecteur/extracteur

Type: TW 300 S, TW 400, TW 1400 HD

Description: 230 V~, 50 Hz

La construction de l'appareil est conforme aux réglementations afférentes suivantes: EC-Machine Directive 98/37/EG
EC-Low-Voltage Directive 73/23/EWG
EC EMV Directive 89/336/EWG

Normes harmonisées appliquées: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Normes nationales et spécifications techniques appliquées: DIN EN 60335-1
EN 60335-2-10
EN 60335-2-68

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EU Declaration of Conformity

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Produit: Spray extraction cleaner

Type: TW 300 S, TW 400, TW 1400 HD

Description: 230 V~, 50 Hz

The design of the unit corresponds to the following pertinent regulations: EC Machine Directive 98/37/EWG
EC Low-voltage Directive 73/23/EWG
EC EMV Directive 89/336/EWG

Applied harmonised standards: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Applied national standards and technical specifications: DIN EN 60335-1
EN 60335-2-10
EN 60335-2-68

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Dichiarazione di conformità CE

Alto Deutschland GmbH
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Prodotto: Apparecchio per estrazione e spruzzo

Type: TW 300 S, TW 400, TW 1400 HD

Description: 230 V~, 50 Hz

La costruzione dell'apparecchio è conforme alle seguenti direttive e specifiche: Direttiva CE sulle macchine 98/37/EWG
Direttiva CE sulla bassa tensione 73/23/EWG
Direttiva CE sulla compatibilità elettromagnetica 89/336/EWG

Norme armonizzate applicate: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Norme nazionali applicate e specifiche tecniche: DIN EN 60335-1
EN 60335-2-10
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EG-Verklaring van overeenstemming

Alto Deutschland GmbH
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Produkt: Sprei-/extractietoestel

Type: TW 300 S, TW 400, TW 1400 HD

Beschrijving: 230 V~, 50 Hz

De constructie van het apparaat voldoet aan de volgende van toepassing zijnde voorschriften: EG-machinerichtlijn 98/37/EWG
EG-laagspanningsrichtlijn 73/23/EWG
EG-richtlijn EMV 89/336/EWG

Toegepaste geharmoniseerde normen: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Toegepaste nationale normen en technische specificaties: DIN EN 60335-1
EN 60335-2-10
EN 60335-2-68

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Bellenberg, 29.05.2001



Atestado de conformidad de la UE

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Producto: Máquina de limpieza por aspiración/aspiración

Modelo: TW 300 S, TW 400, TW 1400 HD

Descripción: 230 V~, 50 Hz

La construcción de la máquina corresponde a las siguientes normas específicas: R. de la UE para máquinas 98/37/EWG
R. de la UE para baja tensión 73/23/EWG
R. de la UE para la compatibilidad electromagnética 89/336/EWG

Normas armonizadas aplicadas: EN 292
EN 60335-1, EN 60335-1-A6
EN 60335-2-10, EN 60335-2-68
EN 55014-1, EN 50014-2, EN 61000-3-2

Normas nacionales aplicadas y especificaciones técnicas: DIN EN 60335-1
EN 60335-2-10
EN 60335-2-68

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Bellenberg, 29.05.2001

TW 300 S



TW 1400 HD



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TW 400



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**READ THE OPERATING
INSTRUCTIONS AND
OBSERVE THE SAFETY
NOTES!**

SAFETY NOTES

Do not pull the cleaner along with the mains lead. Take care not to crush the mains lead or to drag it over sharp corners.

Inspect the mains lead at regular intervals. If the mains lead is damaged, replace it immediately with a lead of the type specified in the technical data.

If foam or fluid starts to escape from the cleaner, switch off the cleaner immediately.

Use only cleansing agents approved by Alto.

INTENDED USE

The cleaners described in these operating instructions are intended for use to clean textile wall and floor coverings.

The cleaners are suitable for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental properties.

DESCRIPTION

TW 300 S

- 1 Metering valve
- 2 Suction/spray hose
- 3 Lid of dirty water tank
- 4 Suction/spray tube
- 5 Suction motor/pump switch
- 6 Connection for spray hose
- 7 Level indicator

TW 400

- 1 Lid of dirty water tank
- 2 Handle for dirty water tank
- 3 Catch for dirty water cover
- 4 Suction hose connection
- 5 Dirty water tank
- 6 Suction hose
- 7 Transport handle (extendable)
- 8 Spray hose
- 9 Connection for spray hose
- 10 Filling funnel with level indicator
- 11 Suction motor switch
- 12 Mains lead
- 13 Handle
- 14 Fresh water tank
- 15 Pump switch
- 16 Take-up reel for mains lead

TW 400 HD

- 1 Fresh water tank
- 2 Dirty water drain hose
- 3 Pushing handle
- 4 Basket
- 5 Take-up reel for extension lead
- 6 Mains lead
- 7 Float

- 8 Lid of dirty water tank
- 9 Dirty water tank
- 10 Suction motor switch
- 11 Holder for adapter
- 12 Pressure gauge
- 13 Pressure regulating valve
- 14 Spray hose connection
- 15 Transport handle - support bar for adapter
- 16 Pump switch
- 17 Suction hose connection
- 18 Suction hose
- 19 Spray hose



ASSEMBLY

Before it is used for the first time, the cleaner has to be assembled:

- Push the suction tube sections together.
- Push the suction hose firmly into the spray extraction cleaner and the suction tube.
- Allow the pressure hose to engage in the coupling
- To remove the hose, release the spring-loaded locking ring.



ELECTRICAL CONNECTION

The mains voltage must correspond to the voltage specified on the rating plate!

- Connect the cleaner only to a correctly installed fused plug socket with at least a 10 A fuse.
- Turn off the suction motor and pump switches.
- Connect the mains lead plug to the mains supply.

FILL THE FRESH WATER TANK

- Pour hot water (max. 40° C) into the fresh water tank and mix with cleansing agent.

Maximum filling up to the marking

- **TW 300 S:** on the inside of the tank
- **TW 400:** on the filling funnel
- **TW 1400 HD:** up to approx. 5 cm below the rim of the tank

CAUTION!

If the tank is overfilled, the dirty water tank will overflow, which may damage the cleaner.

Dosing cleansing agent:

- ALTO Top Wash (liquid): 1% - 5%.
Prespraying: max. 10%

- ALTO Top Wash P (powder, alkaline):
0.3% - 1%.
Prespraying: max. 5%

CAUTION!

Never use foaming carpet shampoo. Use only low-foam cleansing agents which are expressly approved for use in spray extraction cleaners.

When cleaning carpets which have already been shampooed several times, excessive foaming can occur in the dirty water tank.

• ALTO Foam STOP

Add foam preventive agent to the dirty water tank. Mixing ratio: 0.05%.

BEFORE CLEANING

Use the spray extraction method only when the textile wall or floor covering and the wall or floor cannot be damaged.

CAUTION!

- ! Take care on wood or floors sensitive to water.
- ! Take care with carpets which have been laid using water-soluble glue.
- ! Take care on carpets with a water-sensitive

backing fabric (e.g. jute).

- ! Take care on natural fibre carpets.
- ! Observe the manufacturer's carpet declaration.
- ! If in doubt about colour-fastness, apply a small amount of cleaning agent to the carpet in an inconspicuous place using a white cloth. If the cloth picks up the colour, the carpet is not colour-fast.

CARPET PREPARATION

- Before starting the spray extraction, vacuum the carpet thoroughly.
- Pretreat spots or severe soiling with a special cleanser or spot remover.

USE FOR NORMAL SOILING

- Start cleaning the carpet in the corner furthest from the door.
- Turn on the suction motor and the pump switches.
- Position the spray nozzle at the edge of the carpet and operate the metering valve.

- Pull the nozzle gradually backwards (1 m in 5 seconds).
- Shortly before reaching the end of a run, close the metering valve and pick up the water last sprayed.

NOTE!

The next working run should overlap the previous run by approx. 2 cm.

The drying time can be shortened if the cleaner is applied to the carpet again without the metering valve being operated.

USE FOR SEVERE SOILING

- Turn on the pump switch only.
- Prespray the cleansing agent with the metering valve open.
- Allow the cleansing agent to act, but do not allow to dry.
- Clean as described in the section „Use for normal soiling“.
- Repeat the cleaning process, preferably at right angles to the previous working direction. Do not carry out this second cleaning process until the carpet has dried completely.

CHECKS DURING WORK

- **If foam or fluid starts to escape from the cleaner, switch off the cleaner immediately.**
- If the suction power decreases, empty the dirty water tank.
- When refilling the fresh water tank, always empty the dirty water tank.

AFTER WORK

TW 400 and TW 1400 HD only

Draw all the water out of the fresh water tank using the suction hose.

TW 300 S, TW 400 and TW 1400 HD

- Turn off the suction motor/pump switches.
- Remove the mains lead plug from the mains supply.
- Empty the dirty water tank and clean it.
- Inspect the filter in the fresh water tank and clean if necessary.

TW 1400 HD only

- Close the dirty water drain hose.

STORAGE

- Coil up the mains lead.
- Protect the cleaner and accessories from frost.

SERVICE AND MAINTENANCE

Carry out only work described in the operating instructions.

Remove the mains lead plug from the mains supply before working on the cleaner.

Leave service and repair work, in particular the remedying of electrical faults, to the Alto service staff or an authorised specialist.

GUARANTEE

Our general terms and conditions of sale and supply are applicable with regard to guarantee and warranty.

TROUBLESHOOTING

Fault	Cause	Remedy
‡ Motor does not run	> Power supply interrupted	<ul style="list-style-type: none"> • Check mains lead, plug socket, fuse
‡ Weak spraying force	<ul style="list-style-type: none"> > Spray nozzle clogged > Filter in fresh water tank clogged > Fresh water tank empty > Pressure pump defective 	<ul style="list-style-type: none"> • Clean and/or descale nozzle • Clean • Refill. Beforehand, empty dirty water tank • Call Alto technician or authorised specialist
‡ Weak suction force	<ul style="list-style-type: none"> > Lid not fitted correctly on dirty water tank (air leaks) > Nozzle clogged > Suction hose connections not correctly fitted (air leaks) > Dirty water tank is full. Float stops suction flow > Air filter clogged > TW 1400 HD only: Dirty water drain hose not closed 	<ul style="list-style-type: none"> • Fit lid tightly; check gasket • Clean • Check • Empty dirty water tank • Clean • Close

CLEANSING AGENTS AND CARE PRODUCTS

Product	Brief description	pH-value	Package Size	Order No.
Alto Top Wash	Neutral surface cleansing agent	7	6 x 1l 10 l	8467 80937
Alto Top Wash P	Powdery alkaline surface cleansing agent	10	6 x 1 kg 10 kg	81100 81033
Alto Foam STOP	Foam preventive agent	7	6 x 1 l 10 l	8469 80938

ACCESSORIES

Product	Brief description	TW 300 S TW 400	TW 1400 HD	Best.-Nr.
Upholstery adapter	– Plastic with inside nozzle	x	x	6696
	– Aluminium with outside nozzle	x	x	7335
Hard floor scrubber adapter			x	11550
Spray lance			x	11553

TECHNICAL DATA

		TW 300 S	TW 400	TW 1400 HD
Voltage	Volt	230	230	230
Mains frequency	Hz	50	50	50
Total installed load/fuse	Watt/A	1000/10	1000/10	1600/10
Protection class / type of protection		I / IPX4	I / IPX4	I / IPX4
Suction motor power	Watt	1000	1000	1250
Vacuum	max. Pa	21000	21000	25000
Air volume	l/min	2400	2400	3200
Pump pressure / water volume	bar / l/min	2 / 2	2,3 / 3,0	2-11 / 9,0
Mains lead (H07 RN-F 3G1,0)	m	7,5	7,5	15
Sound pressure level according to EN 60704-1	dB(A)	74	76	76
Fresh water tank/max. temperature	l / °C	7 / 40	15 / 40	35 / 40
Dirty water tank	l	7	15	40
Weight	kg	9,5	20	39
Dimensions L x W x H	mm	D 390 x 520	680x360x420	820x410x840
Working width	mm	260	260	300



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