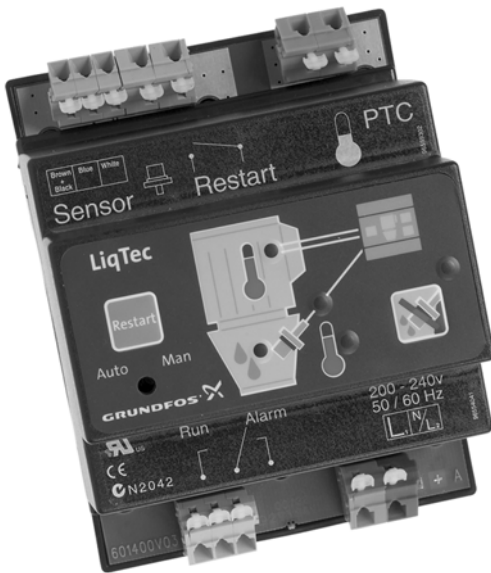


LiqTec, 200-240 V

Installation and operating instructions



For the latest online version,
visit Grundfos Product Center

<http://net.grundfos.com/qr/i/96562445>

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GRUNDFOS 

English (GB) Installation and operating instructions

Original installation and operating instructions

5. Functions

CONTENTS

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1. Description

LiqTec

- protects the pump against dry-running.
- protects the pump against too high liquid temperature ($130\text{ °C} \pm 5\text{ °C}$).
- can monitor the motor temperature if the PTC sensor in the motor has been connected.
- has a fail-safe design. If the sensor, sensor cable, electronic unit or power supply fails, the pump stops immediately.

2. Mounting the LiqTec sensor

LiqTec can be fitted to a DIN rail to be incorporated in a control cabinet.

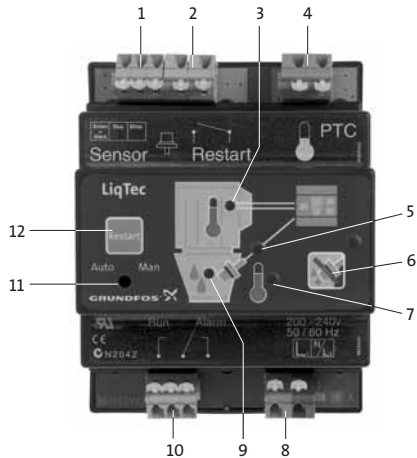
See illustrations on page 4.

3. Electrical connection

Example of electrical connection, see page 5.

4. Calibration of sensor and LiqTec

Follow the procedure on the next page.



- 1. Connection for dry-running sensor**
Service number of dry-running sensor: 96556427.
- 2. Connection for external restarting.**
- 3. Motor PTC**
Green light indicates OK or short-circuited terminals.
Red light indicates too high motor temperature. The alarm relay is activated.
- 4. Connection for PTC sensor**
A PTC sensor according to DIN 44082 can be connected to this terminal.
If the PTC sensor is not used, the terminals must be short-circuited.
- 5. Sensor indicator light**
Red light indicates defective sensor or cable. The alarm relay is activated.
- 6. Deactivation of the dry-running monitoring function**
Press the button to deactivate the dry-running monitoring function. Red flashing light. The PTC monitoring function is still active. Press the Restart button to reactivate the dry-running monitoring function.
- 7. High liquid temperature indicator light**
Red light indicates too high liquid temperature ($130\text{ °C} \pm 5\text{ °C}$). The alarm relay is activated.
- 8. Supply voltage**
200-240 V, 50/60 Hz.
- 9. Dry-running indicator light**
Green light indicates OK (liquid in pump).
Red light indicates dry running (no liquid in pump). The alarm relay is activated.

TM03 0111 4004

- 10. Alarm/Run relay output**
Potential-free changeover contact.
Maximum contact load:
250 V, 1 A, AC (inductive load).
- 11. Auto/Man**
Changeover between automatic and manual restarting.
The default setting is **Man**.
Changeover is carried out by means of a small screwdriver.
When **Auto** has been selected, the alarm indication will automatically be reset 10 to 20 seconds after liquid detection.
- 12. Restart**
Press the button to restart the pump. The button has no influence on the PTC monitoring.

6. Calibration of sensor and LiqTec

Step	Action	Result
1	Check that the sensor is correctly connected to LiqTec. See page 5.	
2	Before fitting the sensor in the pump, submerge the sensor into stagnant water. Any kind of container with water can be used. Note: It is important that the water is stagnant as the calibration will be misleading if the sensor is cooled by flowing water.	
3	Keep the buttons, pos. 6 and 12, pressed for approx. 20 seconds.	All red indicator lights (except pos. 7) start flashing.
4	When the green indicator lights, pos. 3 and 9, are permanently on, stop pressing the buttons, pos. 6 and 12.	The calibration is completed.

7. Further information

Information related to IEC 60730-1:

- Software class A.
- Pollution degree 2.
- Type 1.

LiqTec has been cURus approved according to UL 508.

Maximum pressure:	40 bar.
Maximum liquid temperature:	+130 °C ± 5 °C.
Maximum ambient temperature:	+55 °C.
Power consumption:	5 Watt.
Enclosure class:	IPX0.

Maximum cable length:	20 metres.
Standard cable:	5 metres.
Extension cable:	15 metres.
Product number:	96443676.

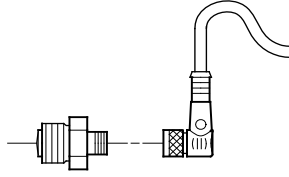
8. Disposal

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

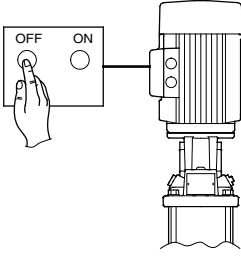
Subject to alterations.

Appendix



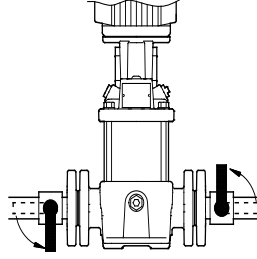
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1



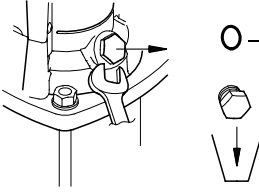
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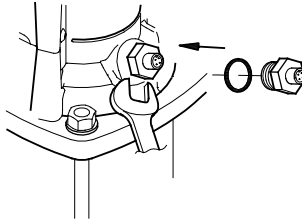
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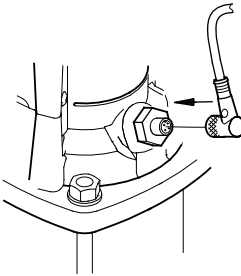
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4



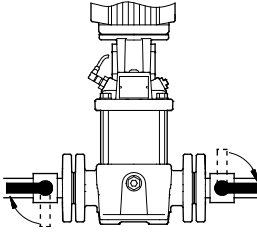
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5



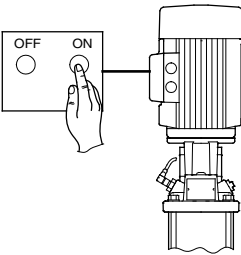
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6



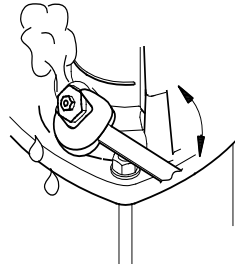
TM03 0096 4004

7

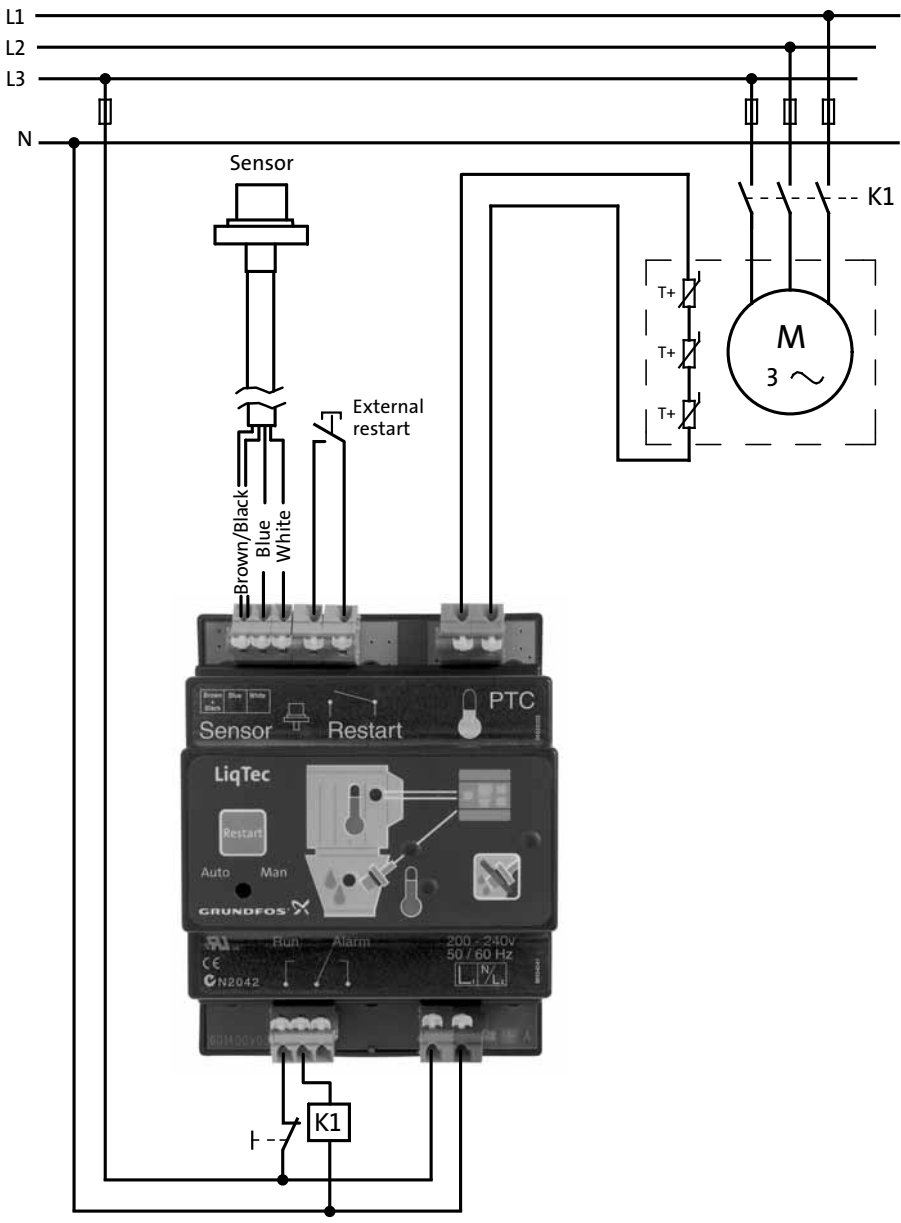


TM03 0087 4004

8



TM02 2182 3801



TM03 0112 4004

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product Liqtec, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek Liqtec, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet Liqtec som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto Liqtec al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit Liqtec, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HR: EU deklaracija sukladnosti

My, Grundfos, izjavljujemo s punom odgovornošću da je proizvod Liqtec, na koja se izjava odnosi u nastavku, u skladu s direktivama Vijeća dolje navedenih o usklađivanju zakona država članica EU-a.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto Liqtec, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il ravvicinamento delle legislazioni degli Stati membri UE.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts Liqtec, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt Liqtec, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate UE

Noi, Grundfos declarăm pe propria răspundere că produsul Liqtec, la care se referă această declarație, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие Liqtec, к которому относится нижеприведенная декларация, соответствует нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek Liqtec, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

TR: AB uygunluk bildirgesi

My, компания Grundfos, ашағидaki bildirim konusuna olan Liqtec ürünlerinin, AB üye ülkelerinin direktiflerinin yakınılaştırılmasıyla ilgili durumun ашағидaki Konsey Direktifleriyle uyumlu olduğunu ve bunlarla ilgili olarak tüm sorumluğun bize ait olduğunu beyan ederiz.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 Liqtec 系列，其制造和性能完全符合以下所列欧盟委员会指令。

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът Liqtec, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членци на ЕО.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt Liqtec, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmt.

EE: Õu vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuiskikulist vastutust selle eest, et toode Liqtec, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EU liikmesriikides.

FI: EU-vaatimusten mukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuote Liqtec, jota tämä vakuutus koskee, on EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν Liqtec, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) Liqtec termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktas Liqtec, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product Liqtec, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que o produto Liqtec, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RS: Deklaracija o uskladenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod Liqtec, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten Liqtec, som omfattas av nedanstående försäkran, är i överensstämmelse med de rättsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt Liqtec, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

UA: Декларация відповідності директивам ЕО

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб Liqtec, до якого відноситься нижченаведена декларация, відповідає директивам ЕО, переліченим нижче, щодо тотожності законів країн-членів ЄС.

JP: EU 適合宣言

Grundfos は、その責任の下に、Liqtec 製品が EU 加盟諸国の法規に 関連する、以下の評議会指令に適合していることを宣言します。

KO: EU 적합성 선언

Grundfos 는 아래의 선언과 관련된 Liqtec 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다 .

ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk Liqtec, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

MK: Декларација за сообразност на ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека производот Liqtec, на кого се однесува долунаведената декларација, е во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktet Liqtec, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ Liqtec ซึ่งเกี่ยวข้องกับคำประกาศนี้มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภารัฐสภาด้วยคำประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: TUYÊN BỐ TUÂN THỦ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm Liqtec mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod Liqtec, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты Liqtec өнімі біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EO

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk Liqtec, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

(EU) إقرار مطابقة الاتحاد الأوروبي :AR

نقر نحن، جرونڤوس، بمقتضى مسؤوليتنا الفردية بأن المنتج Liqtec، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أن بشأن الترتيب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 Liqtec 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produkti Liqtec, me të cilin ka lidhje kjo deklaratë, është në pajtim me direktivat e Këshillit të renditura më poshtë për përaftrimin e ligjeve të shteteve anëtare të BE-së.

- Low Voltage Directive (2014/35/EU).
Standard used: IEC/EN 60730-1:2012 and IEC/EN 60730-2-9:2011.
- EMC Directive (2014/30/EU).
Standard used: EN 60730-1:2012.
- RoHS Directives: (2011/65/EU and 2015/863/EU).
Standard used: EN 50581:2012.

This EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 96562445 0517).

Bjerringbro, 1st April 2017



Svend Aage Kaae
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Manufacturer, Person authorised to compile the technical file and empowered to sign the EU declaration of conformity.

Declaration of conformity EAC



Реле защиты от сухого хода серии LiqТес сертифицированы на соответствие требованиям Технических регламентов Таможенного союза: ТР ТС 004/2011 "О безопасности низковольтного оборудования"; ТР ТС 020/2011 "Электромагнитная совместимость технических средств".

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